HITACHI

Inspire the Next

LCD REAR PROJECTION TELEVISION

Operating Guide for 50VG825, 55VG825, 60VG825

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ENERGY STAR

As an Energy Star® Partner, Hitachi, Ltd. has determined that this product meets the Energy Star® guidelines for energy efficiency.

TV GUIDE

ULTRAVISION

Important Safety Instructions

SAFETY POINTS YOU SHOULD KNOW ABOUT YOUR HITACHI LCD REAR PROJECTION TELEVISION

Our reputation has been built on the quality, performance, and ease of service of **HITACHI** televisions.

Safety is also foremost in our minds in the design of these units. To help you operate these products properly, this section illustrates safety tips which will be of benefit to you. Please read it carefully and apply the knowledge you obtain from it to the proper operation of your **HITACHI** television.

Please fill out your warranty card and mail it to **HITACHI**. This will enable **HITACHI** to notify you promptly in the improbable event that a safety problem should be discovered in your product model.

Follow all warnings and instructions marked on this television.

CAUTION
RISK OF ELECTRIC SHOCK DO NOT OPEN

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK).
NO USER SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

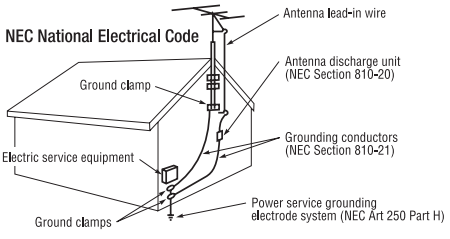
The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated “dangerous voltage” within the product’s enclosure that may be of a sufficient magnitude to constitute a risk of electric shock to a person.

The exclamation point within an equilateral triangle, is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

READ BEFORE OPERATING EQUIPMENT

Follow all warnings and instructions marked on this television.

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with a dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer’s instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use the attachments/accessories specified by the manufacturer.
12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
15. Televisions are designed to comply with the recommended safety standards for tilt and stability. Do not apply excessive pulling force to the front, or top, of the cabinet which could cause the product to overturn resulting in product damage and/or personal injury.
16. Follow instructions for wall, shelf or ceiling mounting as recommended by the manufacturer.
17. An outdoor antenna should not be located in the vicinity of overhead power lines or other electrical circuits.
18. If an outside antenna is connected to the receiver be sure the antenna system is grounded so as to provide some protection against voltage surges and built up static charges. Section 810 of the National Electric Code, ANSI/NFPA No. 70-1984, provides information with respect to proper grounding for the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding connectors, location of antenna-discharge unit, connection to grounding electrodes and requirements for the grounding electrode.


NEC National Electrical Code
Antenna lead-in wire
Antenna discharge unit (NEC Section 810-20)
Ground clamp
Grounding conductors (NEC Section 810-21)
Electric service equipment
Power service grounding electrode system (NEC Art 250 Part H)
Ground clamps

Note to the CATV system installer: This reminder is provided to call the CATV system installer’s attention to Article 820-44 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

Important Safety Instructions

Power source
This television is designed to operate on 120 volts 60 Hz, AC current. Insert the power cord into a 120 volt 60 Hz outlet.

To prevent electric shock, do not use the television's (polarized) plug with an extension cord, receptacle, or other outlet unless the blades and ground terminal can be fully inserted to prevent blade exposure.

Never connect the television to 50 Hz, direct current, or anything other than the specified voltage.

Caution

Never remove the back cover of the television as this can expose you to very high voltages and other hazards. If the television does not operate properly, unplug the television and call your authorized dealer or service center.

Caution
Adjust only those controls that are covered in the instructions, as improper changes or modifications not expressly approved by **HITACHI** could void the user's warranty.

Warning
- To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.
- The television should not be exposed to dripping or splashing and objects filled with liquids, such as vases, should not be placed on the television.

Warning
- Do not place any objects on the top of the television which may fall or cause a child to climb to retrieve the objects.

Modifications
The FCC requires the user to be notified that any changes or modifications made to this device that are not expressly approved by Hitachi America, Ltd. Home Electronics Division may void the user's authority to operate the equipment.

Note
This television receiver will display television closed captioning, (CC or), in accordance with paragraph 15.119 and 15.122 of the FCC rules.

Public viewing of copyrighted material
Public viewing of programs broadcast by TV stations and cable companies, as well as programs from other sources, may require prior authorization from the broadcaster or owner of the video program material.

This product incorporates copyright protection technology that is protected by U.S. patents and other intellectual property rights. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited consumer uses only unless otherwise authorized by Macrovision. Reverse engineering or disassembly is prohibited.

Note
This digital television is capable of receiving analog basic, digital basic and digital premium cable television programming by direct connection to a cable system providing such programming. A CableCARD provided by your cable operator is required to view encrypted digital programming. Certain advanced and interactive digital cable services such as video-on-demand, a cable operator's enhanced program guide and data-enhanced television services may require the use of a set-top box. For more information call your local cable company.

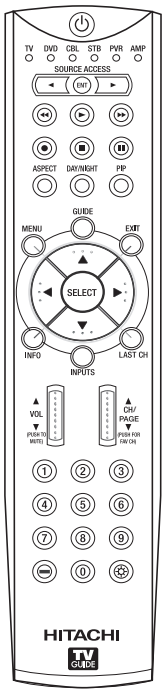
Note
- There are no user serviceable parts inside the television.
- Model and serial numbers are indicated on back side of the television.

Lead Notice
This product contains lead and a lamp that contains mercury. Dispose of this product and its lamp in accordance with applicable environmental laws. For lamp recycling and disposal information, go to www.lamprecycle.org. For product recycling and disposal information contact your local government agency or **www.eRecycle.org** (in California), the Electronic Industries Alliance at **www.eiae.org** (in the US) or the Electronic Product Stewardship Canada at **www.epsc.ca** (in Canada).
FOR MORE INFORMATION, CALL 1-800-HITACHI.

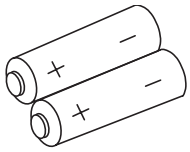
Accessories

Check to make sure you have the following accessories before disposing of the packing material.

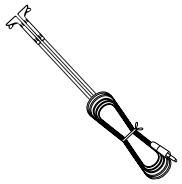
❶ Remote Control



❷ Two “AA” size, 1.5V batteries



❸ IR Mouse Cable



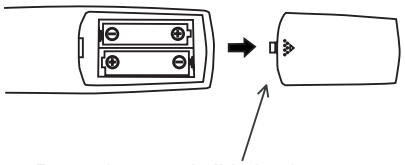
For U.S. models:
For optional accessories, please access our web site at:
www.hitachi.us/tv

❶ Remote Control Unit CLU-3851WL (Part No. HL02065).
❷ Two “AA” size, 1.5V batteries (P# FQ00021).
❸ Two IR Mouse cables (P# EY01641).

REMOTE CONTROL BATTERY INSTALLATION AND REPLACEMENT

1. Open the battery cover of the remote control by pushing down and sliding the back cover off.
2. Insert two new “AA” size batteries for the remote control. When replacing old batteries, push them towards the springs and lift them out.
3. Match the batteries to the (+) and (-) marks in the battery compartment.
4. Replace the cover.

BOTTOM VIEW
(Remote Control)



Press down and slide back to remove.

CAUTION: *Do not insert batteries with the ‘+’and ‘-’ polarities reversed as this may cause the batteries to swell or rupture resulting in leakage.*

How to set up your new HITACHI Projection Television

ANTENNA

Unless your LCD Rear PTV is connected to a cable TV system or to a centralized antenna system, a good outdoor TV antenna is recommended for best performance. However, if you are located in an exceptionally good signal area that is free from interference and multiple image ghosts, an indoor antenna may be sufficient.

LOCATION

Select an area where sunlight or bright indoor illumination will not fall directly on the picture screen. Also, be sure that the location selected allows a free flow of air to and from the perforated back cover of the set. To avoid cabinet warping, cabinet color changes, and increased chance of set failure, do not place the TV where temperatures can become excessively hot, for example, in direct sunlight or near a heating appliance, etc. When using your LCD Rear PTV against a wall, keep it at least 10cm (4 inches) from the wall.

NOTE: *Your new **HDTV** has a built-in high definition television signal processor. This television includes a fan to cool the processor. The sound of moving air from the fan is normal and may be noticeable in very quiet environments.*

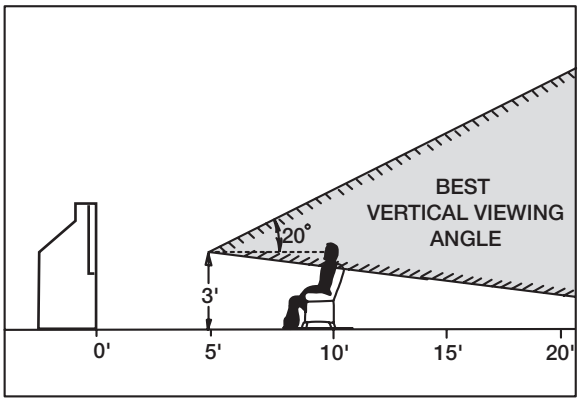
VIEWING

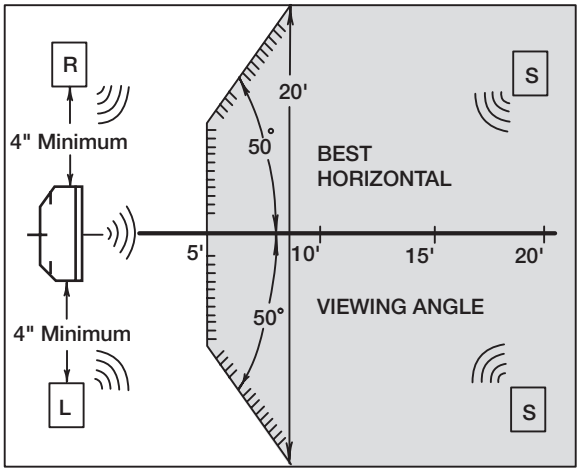
The major benefit of the **HITACHI** LCD Rear PTV is its large viewing screen. To see this large screen at its best, test various locations in the room to find the optimum spot for viewing.

The best picture is seen by sitting directly in front of the TV and about 10 to 18 feet from the screen. Picture brightness decreases as the viewer moves to the left and right of the receiver.

During daylight hours, reflections from outside light may appear on the screen. If so, drapes or screens can be used to reduce the reflection or the TV can be located in a different section of the room.

If the TV's audio output will be connected to a Hi-Fi system's external speakers, the best audio performance will be obtained by placing the speakers equidistant from each side of the receiver cabinet and as close as possible to the height of the picture screen center. For best stereo separation, place the external speakers at least four feet from the side of the TV, place the surround speakers to the side or behind the viewing area. Differences in room sizes and acoustical environments will require some experimentation with speaker placement for best performance.





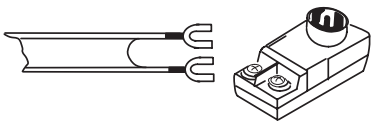
IMPORTANT NOTES:

1. *Since LCD Rear PTV incorporates a high pressure lamp to display an image, it may take about one minute for the picture to become stable, after the power has been turned on. After extended use, the picture may darken, the color may look unusual, or the lamp "goes out," (burns out). You may hear a "pop" sound when the lamp "goes out." These are common characteristics of the lamp, and should not be considered defective.*
2. *LCD Rear PTV incorporates an advanced cooling fan system to prevent from overheating. If you hear the cooling fan, it should not be considered defective.*
3. *If you hear a "cracking" sound from the TV cabinet, it is due to the TV's cabinet expanding and contracting due to room temperature changes. It has no effect on the TV's functions.*
4. *The LCD Rear PTV cabinet is constructed with all plastic. Make sure to place it on a flat surface. An uneven surface might warp the cabinet and reduce the picture quality.*

Hook-up Cables and Connectors

Most video/audio connections between components can be made with shielded video and audio cables that have phono connectors. For best performance, video cables should use 75-Ohm coaxial shielded wire. Cables can be purchased from most stores that sell audio/video products. Below are illustrations and names of common connectors. Before purchasing any cables, be sure of the output and input connector types required by the various components and the length of each cable.

300-Ohm Twin Lead Connector
This outdoor antenna cable must be connected to an antenna adapter (300-Ohm to 75-Ohm).

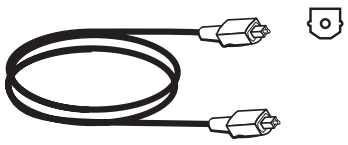


Phono Connector
Used on all standard video and audio cables which connect to inputs and outputs located on the television's rear jack panel and side control panel.

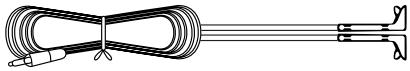
"F" Type 75-Ohm Coaxial Antenna Connector
For connecting RF signals (antenna or cable TV) to the antenna jack on the television.

S-Video (Super Video) Connector
This connector is used on camcorders, VCRs and laser-disc players with an S-Video feature in place of the standard video cable to produce a high quality picture.

Optical Cable
This cable is used to connect to an audio amplifier with an Optical Audio In jack. Use this cable for the best sound quality.

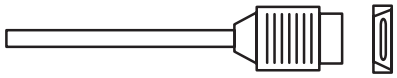


IR Mouse Cable/G-LINK Cable (Provided)
Connect the IR Mouse to the IR Blaster output of your LCD Television when A/V Network is used. You must place the IR Mouse in front of the corresponding IR window of your cable box and VCR. This connection allows your TV, and the TV Guide On Screen™ system, to control your cable box and/or VCR.



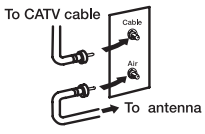
USB Cable
This cable is used to connect your digital camera to the Photo Input in the side of the LCD television.

HDMI Cable
This cable is used to connect your external devices such as Set-Top-Boxes or DVD players equipped with an **HDMI** output connection to the TV's **HDMI** input.

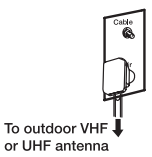


ANTENNA CONNECTIONS TO REAR JACK PANEL

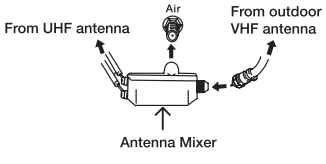
VHF (75-Ohm) antenna/CATV (Cable TV)
When using a 75-Ohm coaxial cable system, connect **CATV** coaxial cable to the **CABLE** (75-Ohm) terminal. If you have an antenna, connect the coaxial cable to the **AIR** terminal.



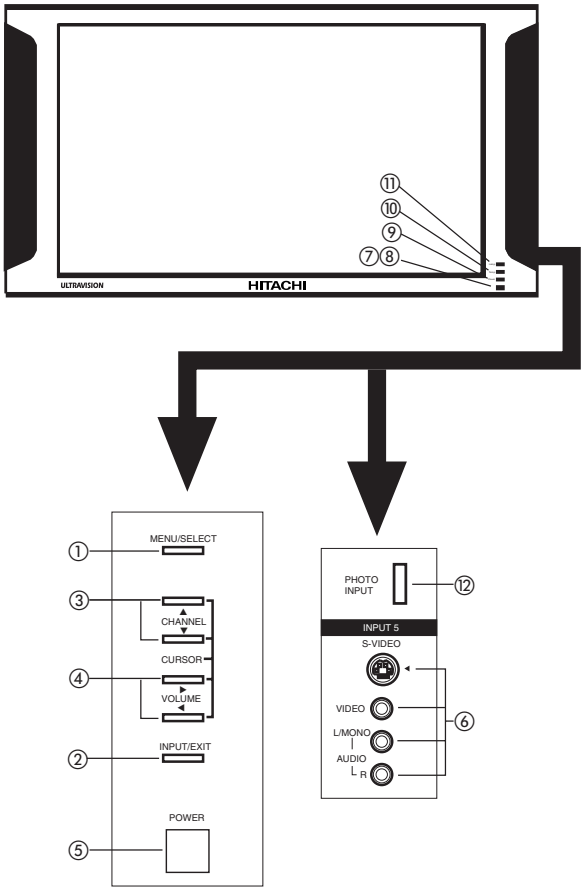
VHF (300-Ohm) antenna/UHF antenna
When using a 300-Ohm twin lead from an outdoor antenna, connect the **VHF** or **UHF** antenna leads to screws of the **VHF** or **UHF** adapter. Plug the adapter into the antenna terminal on the TV.



When both VHF and UHF antennas are connected
Attach an optional antenna cable mixer to the TV antenna terminal, and connect the cables to the antenna mixer. Consult your dealer or service store for the antenna mixer.



Front Panel Controls



❶ MENU/SELECT button
This button allows you to enter the **MENU**, making it possible to set TV features to your preference without using the remote. This button also serves as the **SELECT** button when in **MENU** mode.

❷ INPUT/EXIT button
Press this button to display the input menu, **CABLE**, **AIR**, **INPUT**: **1, 2, 3, 4** and **5**. This button also serves as the **EXIT** button when in **MENU** mode.

❸ CHANNEL selector
Press these buttons until the desired channel appears in the top right corner of the TV screen. These buttons also serve as the cursor down (▼) and up (▲) buttons when in **MENU** mode.

❹ VOLUME level
Press these buttons for your desired sound level. The volume level will be displayed on the TV screen. These buttons also serve as the cursor left (◀) and right (▶) buttons when in **MENU** mode. When the TV power is turned OFF at a volume level 31 or greater, the volume level will default to 30 when the TV is turned ON. However, if it is set to a level 30 or less, the volume level will be at the level it was set when the TV is turned ON.

❺ POWER button
Press this button to turn the TV on or off.

❻ SIDE INPUT JACKS (INPUT 5)
Use these audio/video jacks for a quick hook-up from a camcorder or VCR to instantly view your favorite show or new recording. Press the **INPUT** button and select **INPUT 5**. If you have mono sound, insert the audio cable into the left audio jack.

❼ LEARNING AV NET Sensor
Point your equipment's remote control at this area while using the AV NET Learning Wizard.

❽ IR RECEIVER Sensor
Point the remote control at this area when selecting channels, adjusting volume, etc.

Front Panel Controls

❾ POWER Light

This light is on during normal operation. Light Blinking Slowly (2 seconds): television lamp is cooling down. It takes 12-15 seconds to warm up and about 2 minutes to cool down.

❿ TEMP Indicator

This light is off during normal operation. If this indicator is lit, the optic unit is too hot. If this indicator is blinking, the cooling fan has stopped. Please call service. The optic unit has an air filter that may become clogged over time. The ternal termperature will increse which will trigger the temperature sensor to display an On-Screen warning. After 5 minutes, the lamp will turn off, then the TV will turn off with the TEMP LED On.

⓫ LAMP Indicator

This light is off during normal operation. If light is lit, the lamp has failed. See page 89-92 for lamp replacement procedure. Consult your Hitachi dealer for proper part. If light is blinking, lamp cover is not assembled securely after replacement.

NOTES:

1.

INDICATOR	INDICATION	MEANING	ACTION
LAMP LED	LIGHT ON	NO LAMP LIGHT or BROKEN LAMP	Need to replace if LAMP still does not light by Power On ” again. Check assembly condition of LAMP UNIT
	BLINKING	WRONG LAMP UNIT ASSEMBLY / LAMP DOOR OPEN	
TEMP LED	LIGHT ON	Too hot inside the OPTIC unit	Call for Service
	BLINKING	COOLING FAN STOPPED	
POWER LED	INTERMEDIATE BLINKING (0.5 SEC CYCLE)	BEGINNING OF WARM UP AFTER THE POWER ON.	
	LIGHT ON	NORMAL OPERATION	
	SHORT BLINKING (0.3 SEC CYCLE)	BEGINNING OF COOL DOWN (FOR 20 SEC.) (TV CANNOT ACCEPT ANY CODE IN THIS PERIOD EXCEPT WITHIN THE BEGINNING 5 SEC.)	
	LONG BLINKING (1 SEC CYCLE)	COOL DOWN (FOR 6 MINUTES) (TV CAN ACCEPT REMOTE CONTROL AND SIDE BUTTONS)	

2. If the LAMP, TEMP, and POWER LED are blinking in the order below, the television is warming up.
   POWER → TEMP → LAMP
   ↑ ↓
3. Your Hitachi LCD Rear Projection Television may appear to be OFF when it is set to input 1 ~ input 5 and the video signal is not received from the input jacks. Please make sure the Blue Power light indicator is not lit (OFF) when you are not watching for long lasting performance.
4. Your Hitachi LCD Rear Projection Television has an internal lamp that lights up the TV screen. Make sure to turn off the Power when you do not watch the LCD Rear Projection Television for longer lamp life

⓬ PHOTO INPUT

Insert USB cable from your digital camera, USB memory or memory card USB drive to view your digital still pictures (see page 25).

Rear Panel Connections

❶ **Antenna Input**
CABLE – **CATV** (Cable TV) input.
AIR – RF antenna input.

NOTE: *You may ask your local cable company whether DTV services are available.*

❷ **Audio/Video Inputs 1, 2, 3 and 4**
By using the **INPUTS** button, **CURSOR** buttons and **SELECT** button of the remote control you can select each video source. Use the audio and video inputs to connect external devices, such as VCRs, camcorders, laserdisc players, DVD players etc. (If you have mono sound, insert the audio cable into the left audio jack.)

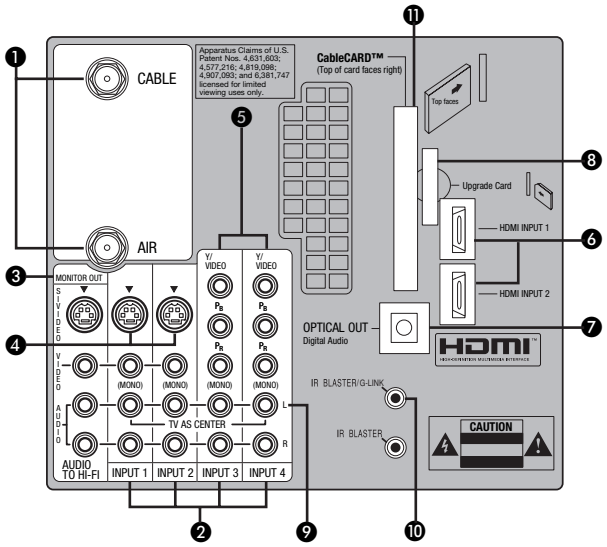
NOTE: *You may use **VIDEO** or **S-VIDEO** inputs to connect to **INPUT 1** and **2**, but only one of these inputs may be used at a time.*

❸ **Monitor Out**
These jacks provide fixed or variable audio and video signals which are used for recording. Use the S-Video Output for high quality video output (see page 86).

❹ **S-Video Inputs 1 and 2**
INPUTS 1 and **2** provide S-Video (Super Video) jacks for connecting equipment with S-Video output capability.

❺ **Component: Y-P_BP_R Inputs**
INPUTS 3 and **4** provide Y-P_BP_R jacks for connecting equipment with this capability, such as a DVD player or Set Top Box. You may use composite video signal for both inputs.

NOTE:
1. *Do not connect composite **VIDEO** and **S-VIDEO** to **INPUT 1, 2** or **5** at the same time. **S-VIDEO** has priority over **VIDEO** input.*
2. *Your component outputs may be labeled Y, B-Y, and R-Y. In this case, connect the components B-Y output to the TV's P_B input and the components R-Y output to the TV's P_R input.*
3. *Your component outputs may be labeled Y-C_BC_R. In this case, connect the component C_B output to the TV's P_B input and the component C_R output to the TV's P_R input.*
4. *It may be necessary to adjust **TINT** to obtain optimum picture quality when using the Y-P_BP_R inputs (see page 41).*
5. *To ensure no copyright infringement, the **MONITOR OUT** output will be abnormal, when using the Y-P_BP_R jacks.*
6. ***INPUT 3** and **INPUT 4** (Y/VIDEO) can be used for composite video and component video input.*



❻ **HDMI (High Definition Multimedia Interface) (INPUTS 1 and 2)**
ABOUT HDMI – **HDMI** is the next-generation all digital interface for consumer electronics. **HDMI** enables the secure distribution of high-definition video and multi-channel audio in a single cable. Because digital television (DTV) signals remain in digital format, **HDMI** assures that pristine high-definition images retain the highest video quality from the source all the way to your television screen.

Use the **HDMI** input for your external devices such as Set-Top-Boxes or DVD players equipped with an **HDMI** output connection.

***HDMI**, the **HDMI** logo and High-Definition Multimedia Interface are trademarks or registered trademarks of **HDMI** Licensing LLC.*

NOTE:
1. *The **HDMI** input is not intended for use with personal computers.*
2. *Only DTV formats such as **1080i, 720p, 480i** and **480p** are available for **HDMI** INPUTS.*

❼ **Optical Out (Digital Audio)**
This jack provides Digital Audio Output for your audio device that is Dolby® Digital and PCM compatible, such as an audio amplifier.

*Manufactured under license from Dolby Laboratories. "**DOLBY**" and the **DOUBLE-D** symbol are trademarks of Dolby Laboratories.*

❽ **Upgrade Card**
This card slot is for future software upgrades. Hitachi will notify you if a software upgrade is required for your TV. In order to receive written notification, please complete and return your warranty card.

Rear Panel Connections

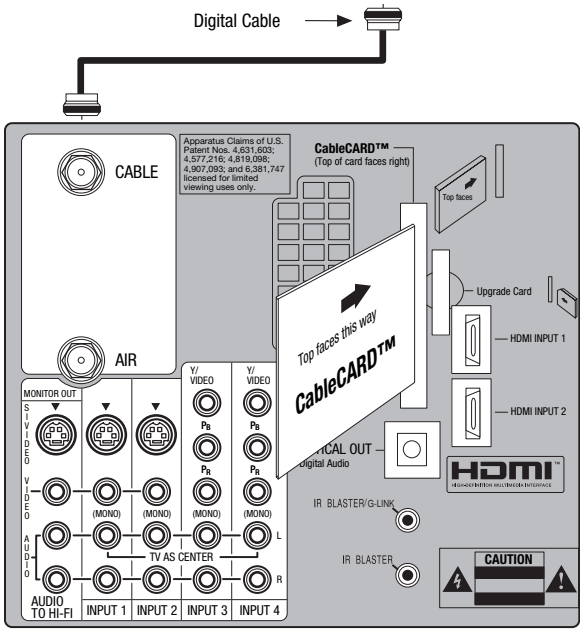
❾ TV AS CENTER (INPUTS 1-4)
These jacks are for stereo amplifiers with center signal output capability. This feature allows the TV speakers to be used as a center speaker. The TV must be set as a center channel by selecting **TV AS CENTER** on the Internal Speakers Settings of the Audio Menu (see page 45).

❿ IR Blaster/G-LINK
This jack provides IR output to your external components (VCR, Cable box, DVD player, etc.). With this connection, your external components can automatically be controlled by the A/V network feature. This connection will allow you to control the external components with your LCD Television's remote control in TV mode. The G-LINK connection will enable the TV Guide On Screen™ recording feature.

⓫ CableCARD Slot
This slot is for the CableCARD that will be provided by your local cable operator to gain access to chosen cable channels. The CableCARD will allow you to tune digital and high definition cable channels. Please call your local cable operator if this service is available before requesting a CableCARD (also known as Point of Deployment (POD) module).

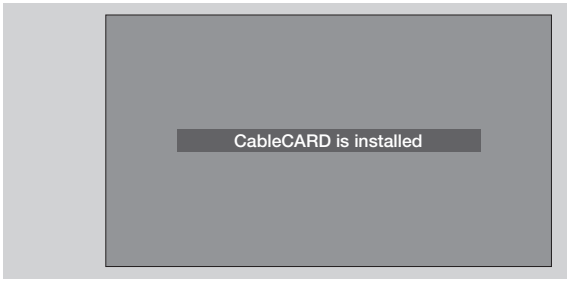
IMPORTANT: Please read the "Lamp Power Control" feature on page 75 before installing the CableCARD.

1. Connect a coaxial cable to cable terminal of the Rear Panel Jacks.
2. Insert the CableCARD into the slot (Top of card should be facing right as shown below).

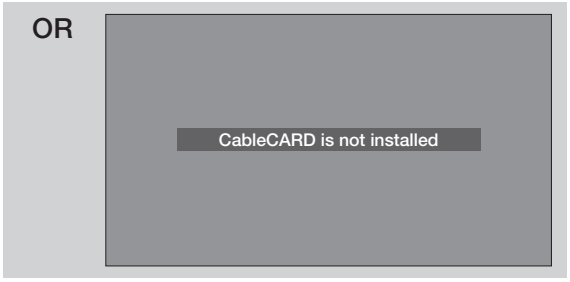


NOTE: *1. A digital cable subscription is required.*
2. Do not insert a PCMCIA card into the CableCARD slot.

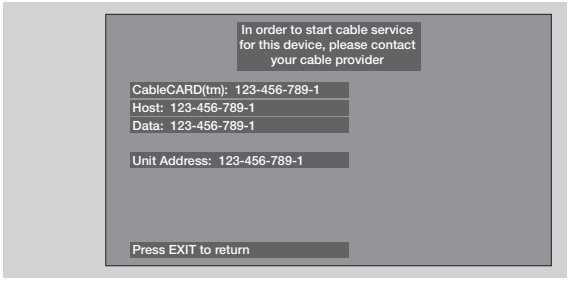
If the CableCARD is properly installed or not installed, the TV will display the following respective screens.



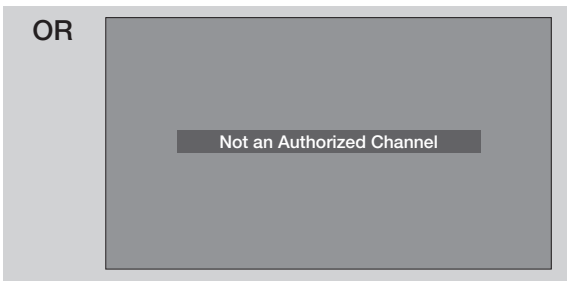
OR



After the CableCARD is installed, wait until the second screen below appears. The third screen below will appear if a channel is not authorized for viewing. Press the **EXIT** button to exit the second screen.


In order to start cable service for this device, please contact your cable provider
CableCARD(tm): 123-456-789-1
Host: 123-456-789-1
Data: 123-456-789-1
Unit Address: 123-456-789-1
Press EXIT to return

OR



Please take note of all information on the screen (you will provide this information to your cable operator). Call your cable operator and give them the information from the card to start your cable service.

NOTE: *Please see Appendix E on page 100 for additional CableCARD information.*

Connecting External Audio Sources

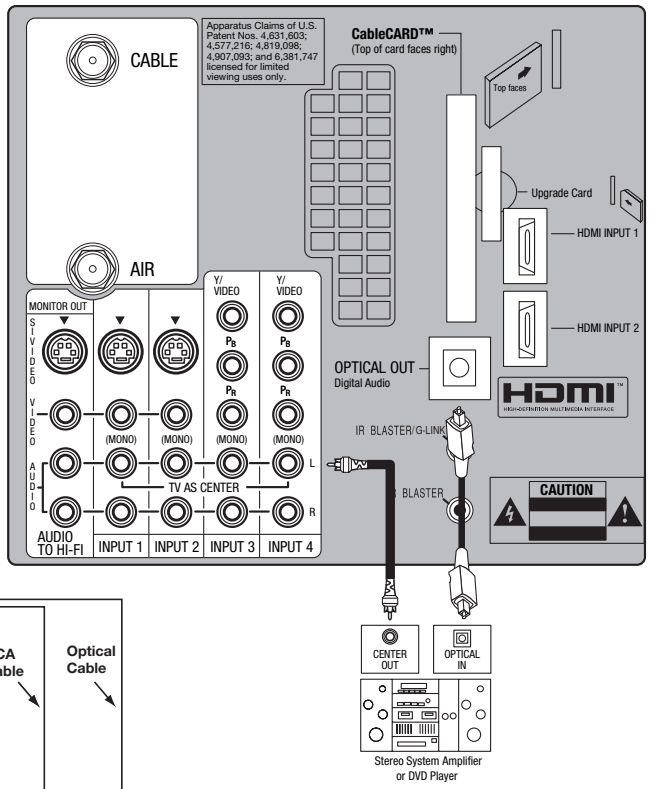
Match the numbers below to the diagram for speaker placement.

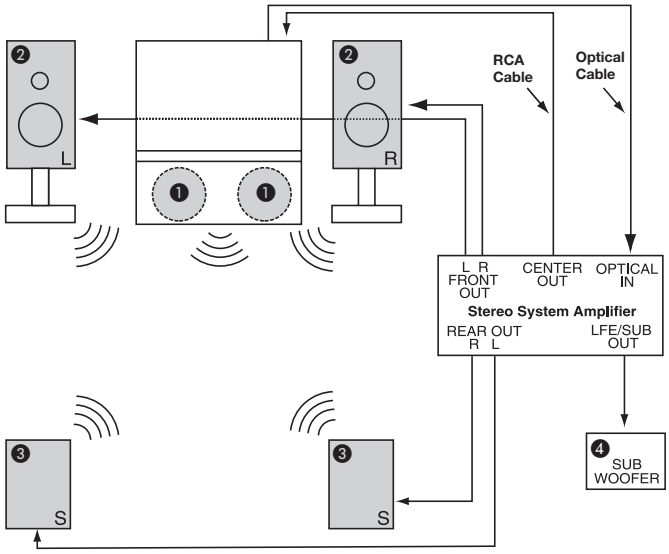
❶ The television's internal speakers will act as center speaker (select **AUDIO** - **INTERNAL SPEAKERS** - **TV AS CENTER**).

❷ These FRONT left and right speakers are connected to the FRONT output of a separate audio amplifier.

❸ These REAR left and right speakers are connected to the Rear output of a separate audio amplifier.

❹ This subwoofer is connected to the LFE/SUB Out output of a separate audio amplifier.





NOTE: *1. The Optical Out (Digital Audio) provides a fixed digital audio output to your external component such as an A/V receiver with optical input capability. The audio level can only be controlled through the volume control of the external audio amplifier.*

2. See page 46 for AUDIO-Digital Output.

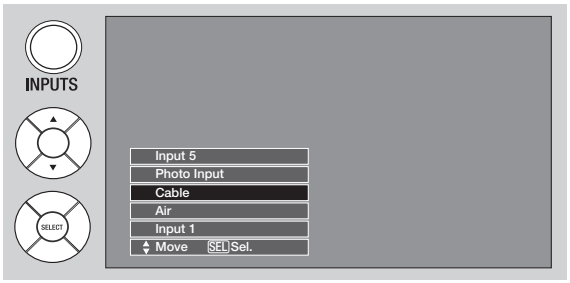
Connecting External Video Sources

The exact arrangement you use to connect the VCR, camcorder, laserdisc player, DVD player, or HDTV Set Top Box to your TV set is dependent on the model and features of each component. Check the owner's manual of each component for the location of video and audio inputs and outputs.

The following connection diagrams are offered as suggestions. However, you may need to modify them to accommodate your particular assortment of components and features. For best performance, video and audio cables should be made from coaxial shielded wire.

BEFORE OPERATING EXTERNAL VIDEO SOURCE

Connect an external source to the INPUT terminal, then press the **INPUTS** button to show the **INPUTS** menu. Use the **CURSOR PAD** to select the **CABLE, AIR** or **INPUT** of your choice. Then press the **SELECT** button to confirm your choice (see page 24).



NOTE: *When the TV is set to **VIDEO** and a video signal is not received from the **VIDEO INPUT JACK** on the back panel of the TV (i.e., VCR/laserdisc player, etc. is not connected or the video device is OFF), the set will appear to be **OFF.***

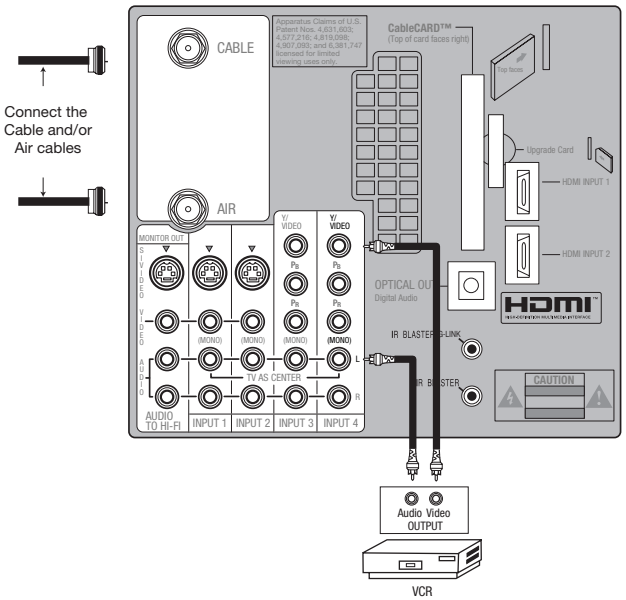
CONNECTING A COMPOSITE VIDEO AND MONAURAL AUDIO SOURCE TO INPUT1 – INPUT5

1. Connect the cable from the VIDEO OUT of the VCR or the laserdisc player to the INPUT (VIDEO) jack, as shown on the TV set on the right.

2. Connect the cable from the AUDIO OUT of the VCR or the laserdisc player to the INPUT (MONO)/L(AUDIO) jack.

3. Press the **INPUTS** button, then select **INPUT 4** from the **INPUTS** menu to view the program from the VCR or the laserdisc player. The VIDEO OSD label disappears automatically after approximately four seconds.

4. Select **CABLE** from the **INPUTS** menu to return to the last channel tuned.

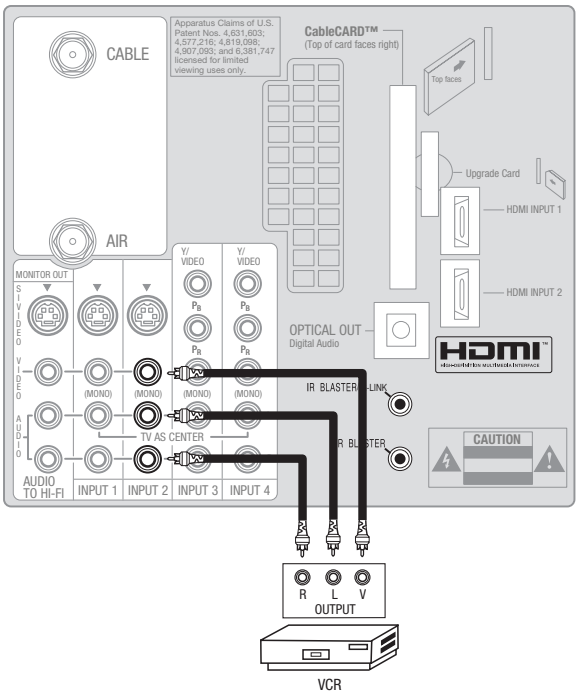


NOTE: *The INPUT 3 can be used in the same manner as INPUT 4.*

Connecting External Video Sources

CONNECTING A COMPOSITE VIDEO AND STEREO AUDIO SOURCE TO INPUT1 – INPUT5

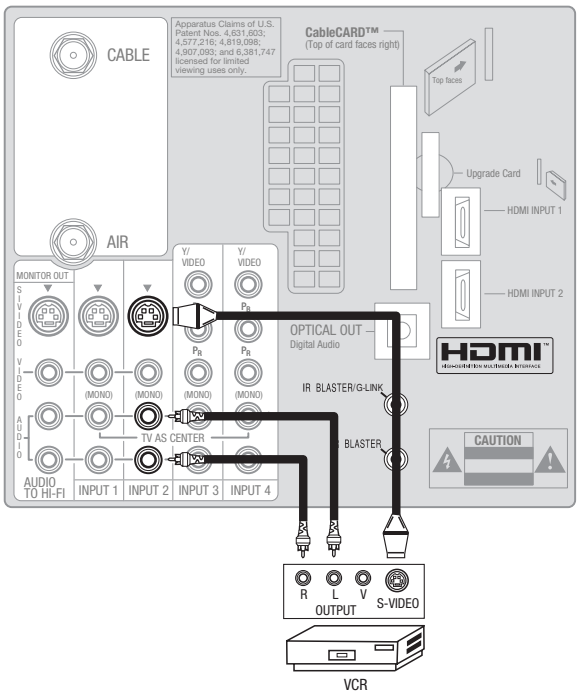
1. Connect the cable from the VIDEO OUT of the VCR or the laserdisc player to the INPUT (VIDEO) jack, as shown on the TV set on the right.
2. Connect the cable from the AUDIO OUT R of the VCR or the laserdisc player to the INPUT (AUDIO/R) jack.
3. Connect the cable from the AUDIO OUT L of the VCR or the laserdisc player to the INPUT (AUDIO/L) jack.
4. Press the **INPUTS** button, then select **INPUT 2** from the **INPUTS** menu to view the program from the VCR or laserdisc player. The VIDEO OSD label disappears automatically after approximately four seconds.
5. Select **CABLE** from the **INPUTS** menu to return to the last channel tuned.



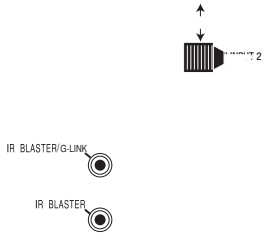
NOTE: *1. Completely insert the connection cord plugs when connecting to rear panel jacks. The picture and sound that is played back will be abnormal if the connection is loose.*
2. A single VCR can be used for VCR #1 and VCR #2 (see page 13), but note that a VCR cannot record its own video or line output. Refer to your VCR operating guide for more information on line input-output connections.
3. When INPUT 3 or 4 are used, it's necessary to connect the video output from the device to the Y/Video input jack of the TV.

CONNECTING AN S-VIDEO SOURCE TO INPUT 1, 2 AND 5

1. Connect the cable from the S-VIDEO OUT of the VCR or the laserdisc player to the INPUT (S-VIDEO) jack, as shown on the TV set on the right.
2. Connect the cable from the AUDIO OUT R of the VCR or the laserdisc player to the INPUT (AUDIO/R) jack.
3. Connect the cable from the AUDIO OUT L of the VCR or the laserdisc player to the INPUT (AUDIO/L) jack.
4. Press the **INPUTS** button, then select **INPUT 2** from the **INPUTS** menu to view the program from the VCR or laserdisc player. The VIDEO OSD label disappears automatically after approximately four seconds.
5. Select **CABLE** from the **INPUTS** menu to return to the last channel tuned.

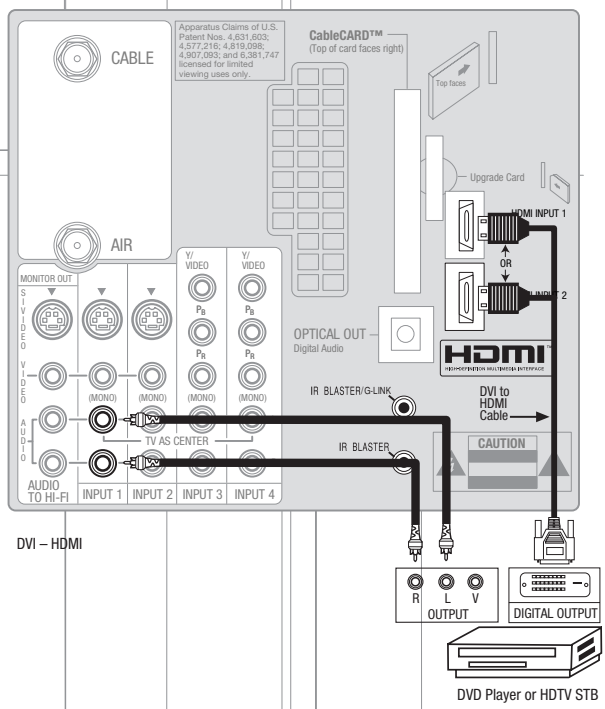


NOTE: *1. Completely insert the connection cord plugs when connecting to rear panel jacks. The picture and sound that is played back will be abnormal if the connection is loose.*
2. A single VCR can be used for VCR #1 and VCR #2 (see page 13), but note that a VCR cannot record its own video or line output. Refer to your VCR operating guide for more information on line input-output connections.



plugs when connecting to rear panel jacks. The picture and sound that is played back will be abnormal if the connection is loose.

2. *The HDMI input on INPUT 1 or 2 contains the copy protection system called High-bandwidth Digital Content Protection (HDCP). HDCP is a cryptographic system that encrypts video signals when using HDMI connections to prevent illegal copying of video contents.*
3. *HDMI is not a "NETWORK" technology. It establishes a one-way point-to-point connection for delivery of uncompressed video to a display.*
4. *The connected digital output device controls the HDMI interface so proper set-up of device user settings determines final video appearance.*



Connecting External Video Sources

CONNECTING A COMPONENT SOURCE TO INPUT 3 OR 4: Y-P_BP_R.

1. Connect the cable from the Y OUT of the Laserdisc/DVD player or HDTV set top box to the INPUT (Y) jack, as shown on the TV set on the right.

2. Connect the cable from the C_B/P_B OUT or B-Y OUT of the Laserdisc/DVD player or HDTV set top box to the INPUT (P_B) jack.

3. Connect the cable from the C_R/P_R OUT or R-Y OUT of the laserdisc/DVD player or HDTV set top box to the INPUT (P_R) jack.

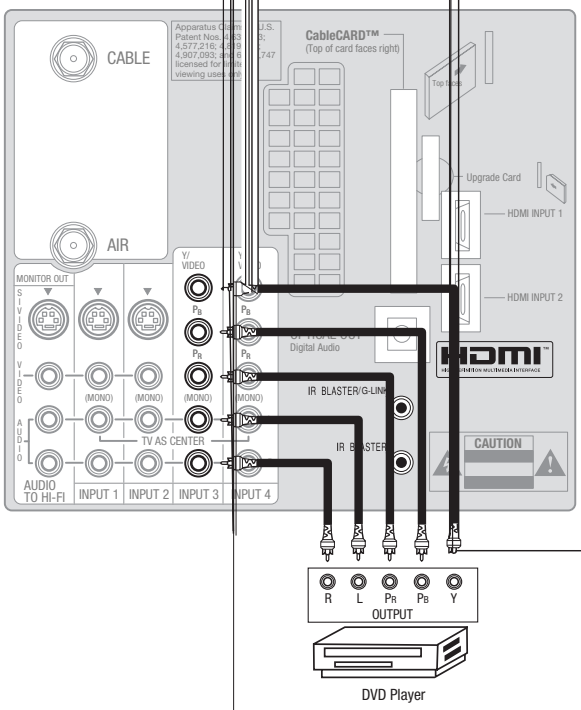
4. Connect the cable from the AUDIO OUT R of the Laserdisc/DVD player or HDTV set top box to the INPUT (AUDIO/R) jack.

5. Connect the cable from the AUDIO OUT L of the Laserdisc/DVD player or HDTV set top box to the INPUT (AUDIO/L) jack.

6. Press the the **INPUTS** button, then select **INPUT 3** from the **INPUTS** menu to view the program from the Laserdisc/DVD player or HDTV set top box. The VIDEO OSD label disappears automatically after approximately four seconds.

7. Select **CABLE** from the **INPUTS** menu to return to the last channel tuned.

NOTE: *1. Completely insert the connection cord plugs when connecting to rear panel jacks. The picture and sound that is played back will be abnormal if the connection is loose.*
2. See page 13 for tips on REAR PANEL CONNECTIONS.



Connecting External Video Sources

Your HITACHI LCD Rear Projection Television is equipped with an AV Network feature. This feature helps to control your external Audio/Video equipment (VCR, Set Top Box, DVD, etc.). Once this is setup, it allows your IR Mouse connector to control your equipment using your HITACHI LCD Rear PTV Remote Control. You can use your HITACHI remote control to control the Audio/Video equipment command without the equipment's remote control.

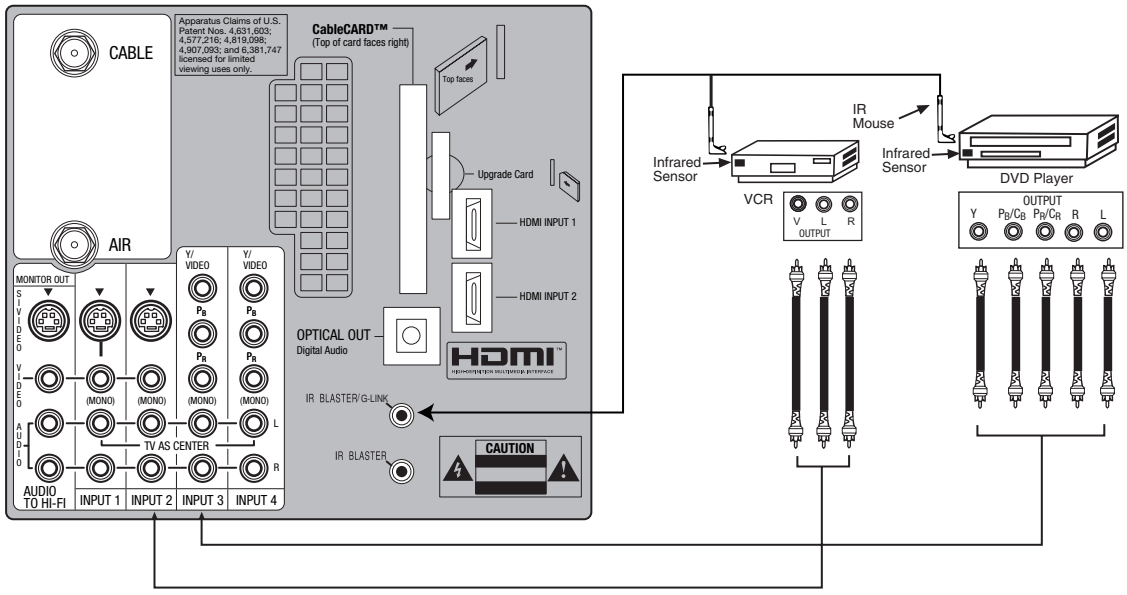
The LCD Rear PTV Rear Panel has 2 IR BLASTER jacks. Each IR Mouse cable can connect up to 2 external Audio/Video components. Therefore, you can connect the LCD Rear PTV with up to four components. Please see the following example of an AV Network setup between your HITACHI LCD Rear PTV and external Audio/Video equipment (VCR and DVD Player).

CONNECTING EXTERNAL AUDIO/VIDEO COMPONENTS TO IR BLASTER FOR AV NETWORK

1. Connect your external Audio/Video components to the Rear Panel shown below.

2. Connect the IR Mouse cable to the IR BLASTER output of the Rear Panel.

3. Place the IR Mouse in front of the infrared sensor of the external components you wish to control.



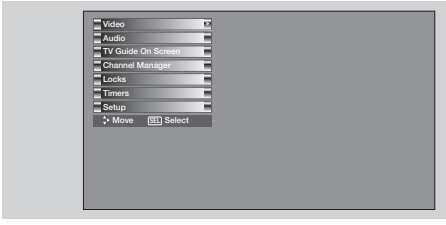
4. ACCESS THE AV NET SETUP WIZARD
   Press the MENU button.

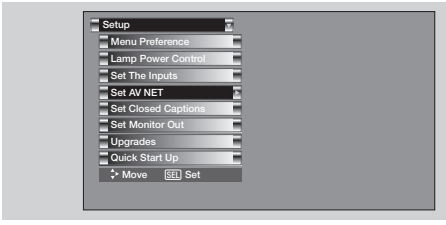
5. Use the CURSOR PAD ▼ or channel scroll down to highlight SETUP.

6. Press the SELECT or CURSOR PAD ▶ button to select.

7. Use the CURSOR PAD ▼ or channel scroll to highlight the SET AV NET features then press the SELECT button.

8. Follow the Setup procedure on pages 76-83.





NOTE: *1. The Rear Panel has two IR BLASTER outputs which can control up to a total of four external components.*
2. The IR Mouse must be placed in front of the external components infrared sensor for the AV Network to work. Double-sided mounting tape may be used to hold the IR Mouse in place.
3. The correct codes must be chosen for each of the Audio/Video components for the AV Network to function properly.

ideo
Channel Manager
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Move
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The Remote Control

In addition to controlling all the functions on your HITACHI LCD Rear Projection TV, the new remote control is designed to operate different types of VCRs, CATV (Cable TV) converters, set-top-box, satellite receiver, DVD players, and other audio/video equipment with one touch. Basic operation keys are grouped together in one area.

To operate your LCD Rear Projection TV, point the remote control at the remote sensor of the television and select the TV by pressing the ◀ or ▶ button of the Source Access on the remote. The TV mode indicator will blink, indicating that the remote will now control your television.

To operate your VCR, point the remote at the remote sensor of the VCR and select PVR by pressing the ◀ or ▶ button of the Source Access on the remote. The PVR mode indicator will blink, indicating that the remote will now control your VCR (see page 34 for instructions on how to program the remote to control your VCR).

To operate your PVR (Personal Video Recorder), point the remote at the remote sensor of the PVR and select PVR by pressing the ◀ or ▶ button of the Source Access on the remote. The PVR mode indicator will blink, indicating that the remote will now control your PVR (see page 34 for instruction on how to program the remote to control your PVR).

To operate your cable box, point the remote at the remote sensor of the cable box and select the CABLE (CBL) by pressing the ◀ or ▶ button of the Source Access on the remote. The CBL mode indicator will blink, indicating that the remote will now control your cable box (see page 31 for instructions on how to program the remote to control your cable box).

To operate your set-top-box or satellite receiver point the remote at the remote sensor of the set-top-box and select the SET-TOP-BOX (STB) by pressing the ◀ or ▶ button of the Source Access on the remote. If you have a satellite receiver, use this button to program your satellite receiver. The STB mode indicator will blink, indicating that the remote will now control your set-top-box (see page 32 for instructions on how to program the remote to control your set-top-box).

To operate your DVD player, point the remote at the remote sensor of the DVD player and select DVD by pressing the ◀ or ▶ button of the Source Access on the remote. The DVD mode indicator will blink, indicating that the remote will now control your DVD Player (see page 33 for instruction on how to program the remote to control your DVD
player).

To operate additional audio equipment, point the remote at the remote sensor of the component you wish to control and select AMP by pressing the ◀ or ▶ button of the Source Access on the remote. The AMP mode indicator will blink, indicating that the remote will now control your audio equipment (see page 35 for instructions on how to program the remote to control additional Audio/Video equipment).

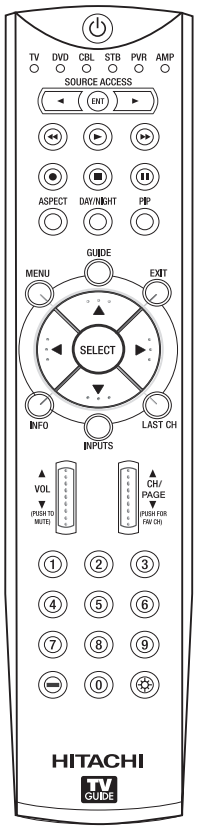
NOTE: *When you press any remote control button, the buttons will light up. The illumination will light a few seconds during this time. The buttons will appear to light if the room is dark.*

There are two modes of lighting the Remote Control buttons. They are the Automatic and Manual modes.

AUTOMATIC MODE (Default mode)
In Automatic mode, if any button is pressed (including the LIGHT button), the illumination will light for 4 seconds.

MANUAL MODE (Optional mode)
In Manual mode, the illumination will only work when the LIGHT button is pressed. When the LIGHT button is pressed, the illumination will light for 8 seconds. During the illumination, if the LIGHT button is pressed, the illumination will turn off.

CHANGING LIGHTING MODES (Automatic to Manual/Manual to Automatic)
1. *Place the Remote Control in TV Mode by using the SOURCE ACCESS ◀ and ▶ buttons. The TV mode indicator will blink 3 times to confirm the remote control mode.*
2. *Press and hold the LIGHT button for 10 seconds. After releasing the LIGHT button, the TV mode indicator will blink 3 times to confirm the mode switch.*



How to Use the Remote to Control Your TV

⑥ **ASPECT button**

Press this button to quickly change the picture format ASPECT ratio. Depending on the input signal format received, the picture format ratio allows you to adjust the images through the following options.

4:3 STANDARD
Use this aspect mode to display conventional (4:3) images. Side panels (gray areas) are placed to the left and right of the image to preserve the original aspect ratio of the source.

4:3 EXPANDED
Use this aspect mode to display conventional (4:3) sources by linearly increasing image expansion from the center towards the edges of the display area in order to fill it.

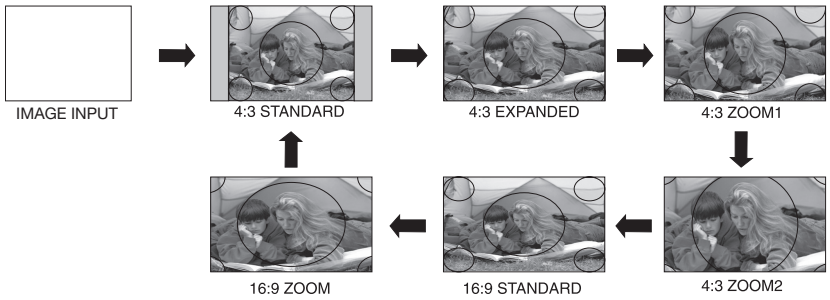
4:3 ZOOM1/ZOOM2
Use these aspect modes to zoom in on conventional (4:3) sources.

16:9 STANDARD
Use this aspect mode to display 16:9 sources like HDTV and DVD's preserving the original 16:9 aspect ratio.

16:9 ZOOM
Use this aspect to Zoom-in once while in 16:9 aspect.

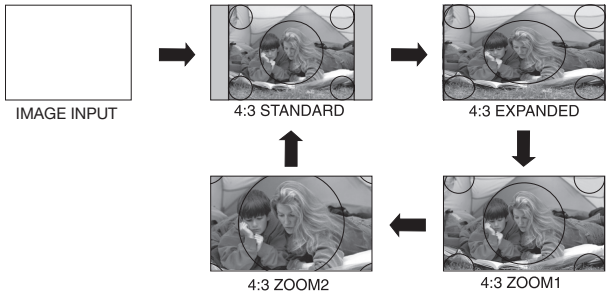
- **Antenna-Analog**
- **S-Video/Video Input (Auto Aspect: Off)**
- **HDMI-480i/480p Input (Auto Aspect: Off)**
- **Component-480i/480p Input (Auto Aspect: Off)**

Note: Please see Appendix A on page 99.



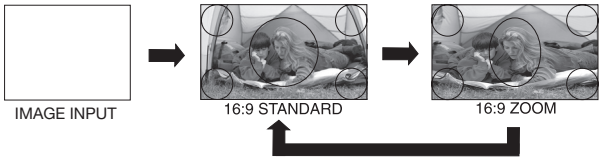
- **Antenna-Digital (4:3)**
- **S-Video/Video 4:3/Letter Input (Auto Aspect: On)**
- **HDMI-480i/480p 4:3/ Letter Input (Auto Aspect: On)**
- **Component-480i/480p 4:3/ Letter Input (Auto Aspect: On)**

Note: Please see Appendix B on page 99.



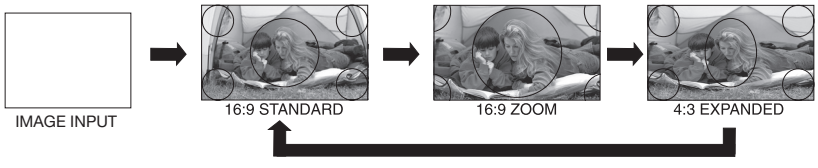
- **S-Video/Video 16:9 Input (Auto Aspect: On)**
- **HDMI-480i/480p 16:9 Input (Auto Aspect: On)**
- **Component-480i/480p 16:9 Input (Auto Aspect: On)**

Note: Please see Appendix C on page 99.



- **Antenna-Digital (16:9)**
- **HDMI-720p/1080i Input**
- **Component-720p/1080i Input**

Note: Please see Appendix D on page 99.



NOTE: *1. The Aspect Style setting you select for an ANT input will automatically be set for the other ANT input. However, all five video inputs have independent Aspect Style settings.*
2. Vertical position adjustments are directly available when you choose 4:3 EXPANDED/ZOOM1/ZOOM2 or 16:9 ZOOM aspect style (see also pages 42-43).

How to Use the Remote to Control Your TV

⑦ **DAY/NIGHT button**
Press this button to toggle between Day and Night picture mode settings. Select Day for day time viewing with more brightness and contrast to compete with room light. Select Night for night time viewing with less brightness and contrast for a more detailed picture (see page 46 for settings changes).

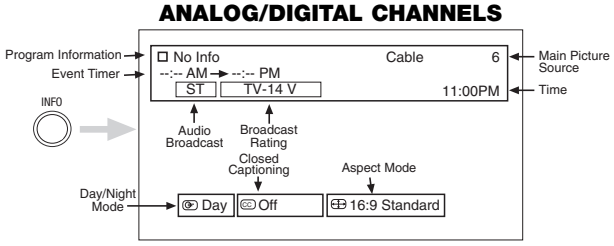
NOTE: *For automatic DAY/NIGHT picture mode settings, see page 41.*

⑧ **PICTURE-IN-PICTURE button**
See separate section on pages 28-30 for a description.

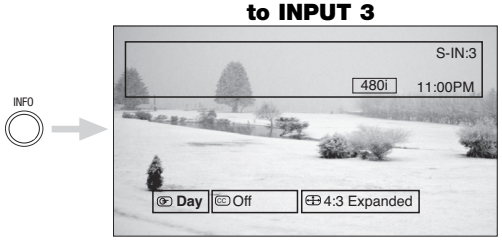
⑨ **MENU button**
The MENU button will start the On-Screen Display.

⑩ **INFO button**
Press this button when you want to check the channel being received, the picture source, if the channel has stereo (ST) or second audio program (SAP), the time, CHANNEL ID and if the TIMER is set.

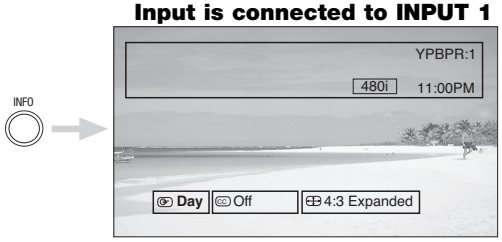
ANALOG/DIGITAL CHANNELS



When an S-VIDEO Input is connected to INPUT 3



When a Component Video: Y-PbPr Input is connected to INPUT 1



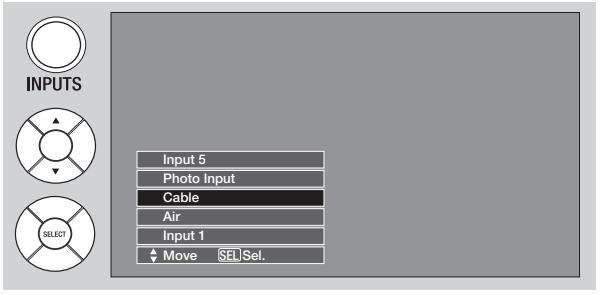
NOTE: *1. The Sleep Timer info will show momentarily after releasing INFO button.*
2. The Aspect setting will not be shown if the channel is locked.

⑪ **EXIT button**
This button will exit all On-Screen Displays.

⑫ **CURSOR PAD/SELECT button**
All the On-Screen Display features can be set or adjusted by using the CURSOR PAD, except for numeric entries. The CURSOR PAD will highlight functions or adjust and set different features. Press the CURSOR PAD toward desired direction and press the SELECT button to select.

⑬ **GUIDE button**
Press this button to access the TV Guide On Screen™ interactive display (see page 57). Press this button to access the Channel Guide of the (CBL), and (SAT/STB) while in (CBL)(SAT/STB) mode.

⑭ **INPUTS button**
When the remote control is in TV mode, press this button to access the INPUTS menu. Use the CURSOR PAD and SELECT button to select the inputs that are being used. Pressing the INPUTS button repeatedly will also cycle through the Inputs menu items. Then press the SELECT button to select.



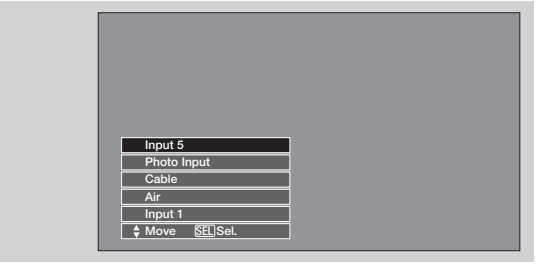
INPUT 1	Select to choose INPUT 1.
INPUT 2	Select to choose INPUT 2.
INPUT 3	Select to choose INPUT 3.
INPUT 4	Select to choose INPUT 4.
INPUT 5	Select to choose INPUT 5.
CABLE	Select to choose Cable.
AIR	Select to choose Air.
PHOTO INPUT	Select to access your pictures from a digital camera, USB memory or memory card USB drive connected to the Photo Input in the side panel of the LCD TV (see pages 25-26).

How to Use the Remote to Control Your TV

PHOTO INPUT

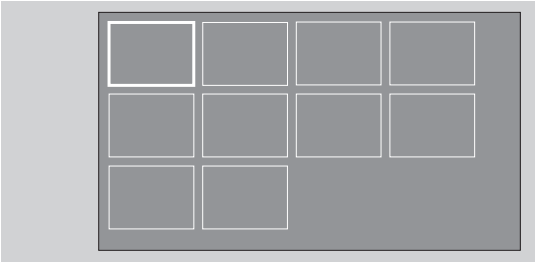
This feature is useful for viewing digital still pictures from your digital camera, USB Drive or memory cards USB drive using the Photo Input in the right side panel of the TV.

1. Press the INPUTS button to cycle through the INPUTS selections until the PHOTO INPUT is selected. Press the SELECT button or CURSOR PAD ▶.

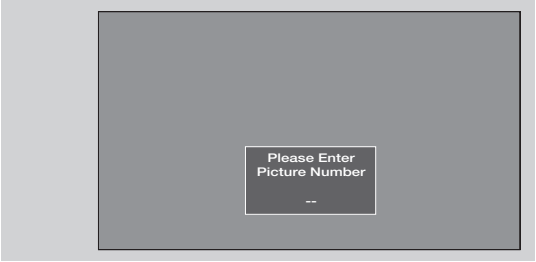


2. Press the CURSOR PAD ◀ or ▶ to access the next or previous photo.

3. Press the SELECT button to view THUMBNAIL.
4. Use the CURSOR PAD buttons ▲, ▼, ◀ or ▶ and the SELECT button to navigate and select individual chosen photos.



5. Press the picture number to jump from picture to picture.

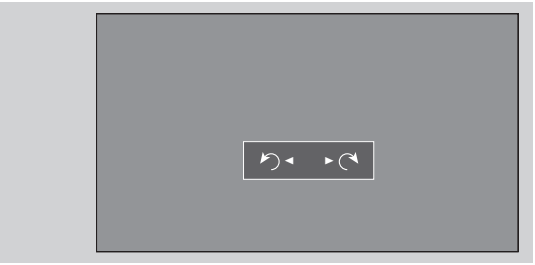


6. Press the INFO button to access PHOTO Input menu and to view Photo information.
7. Press the CURSOR PAD ▲ or ▼ and the SELECT button to navigate and select the PHOTO Input menu.

How to Use the Remote to Control Your

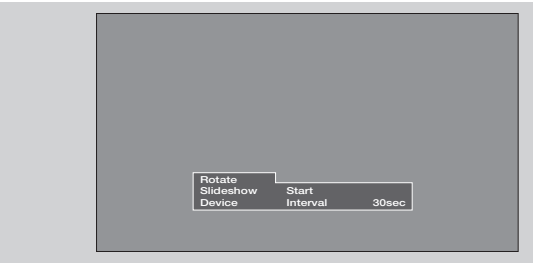
ROTATE

Select this menu item to rotate selected photos either clockwise (CURSOR PAD ▶) and counterclockwise (CURSOR PAD ◀).



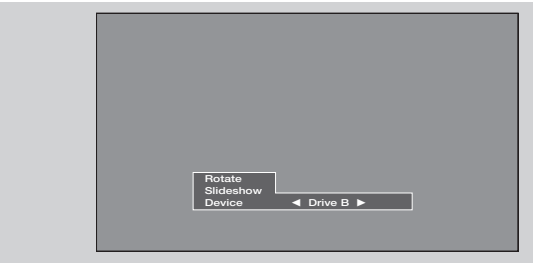
SLIDESHOW

Select this menu item to start a slideshow of the digital photos. While the Interval sub menu is highlighted, press the SELECT button to cycle through the interval time from 5, 10 and 30 seconds. Press the SELECT button to stop on a chosen picture of the slideshow. After 30 seconds, the slideshow will resume or press the SELECT button again to continue with the slideshow.



DEVICE

Select this menu item to select the Photo Input Device Drive when using a USB Drive device. Use the CURSOR PAD ◀ or ▶ to select Device Drive. Press the INFO button to highlight a device, then press the SELECT button or CURSOR PAD ▶ to access it. Use the CURSOR PAD ◀ or ▶ to choose the device to read.



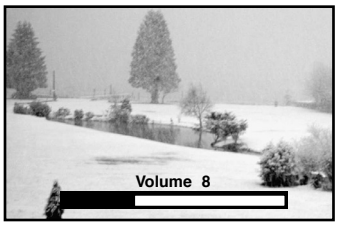
NOTES:

1. *Photo file names modified on a computer should be 8 characters (Ex. ABCD1234.jpg). 1st character: letters; 2nd to 4th: letters or numbers; 5th to 8th: numbers. Photo files should be first placed on a sub directory name with 8 characters (Ex. 123ABCDE). 1st to 3rd: number; 4th to 8th: letters. The sub directory then should be placed on a main directory with a "dcim" file name format.*
2. *Supported image types are up to 3072 x 2304; JPEG format should conform with DCF Standard (Design rule for Camera File System).*
3. *This TV set displays only digital pictures from digital cameras which meet DCF Standard. Pictures that were copied, edited or modified on a computer may not be displayed on the TV set.*

⑮ **LAST CHANNEL (LAST CH) button**
Press this button to toggle between the current and last channel viewed.

⑯ **VOLUME (VOL) WHEEL, MUTE button**
Use the VOL WHEEL (▲ or ▼) until you obtain the desired sound level.

To reduce the sound to one half of normal volume (SOFT MUTE) to answer the telephone, etc., press the VOL wheel down. Press the VOL wheel again to turn the sound off completely (MUTE). To restore the sound, press the VOL wheel one more time or VOL Up (▲).



Closed Captioning will display automatically when MUTE/SOFT MUTE is on and Closed Caption is set to AUTO (see page 84).

When the TV power is turned off at a volume level 31 or greater, the volume level will default to 30 when the TV is turned on. However, if it is set to a level 30 or less, the volume level will be at the level it was set when the TV is turned ON.

⑰ **CHANNEL (CH) WHEEL/CHANNEL SELECTOR buttons**
The CHANNEL wheel or the CHANNEL SELECTOR buttons are used to select channels, lock access code, etc. Use the CHANNEL WHEEL (▲ or ▼) to select the desired channel. Use the CHANNEL SELECTOR buttons to enter one, two, or three numbers to select channels. Enter "0" first for channels 1 to 9, or simply press the single digit channel you wish to tune then wait a few seconds for the TV to tune. For Digital Channels, use the CHANNEL SELECTOR buttons with the (-) DASH button. Channel selection may also be performed by CHANNEL WHEEL up (▲) or CHANNEL WHEEL down (▼).

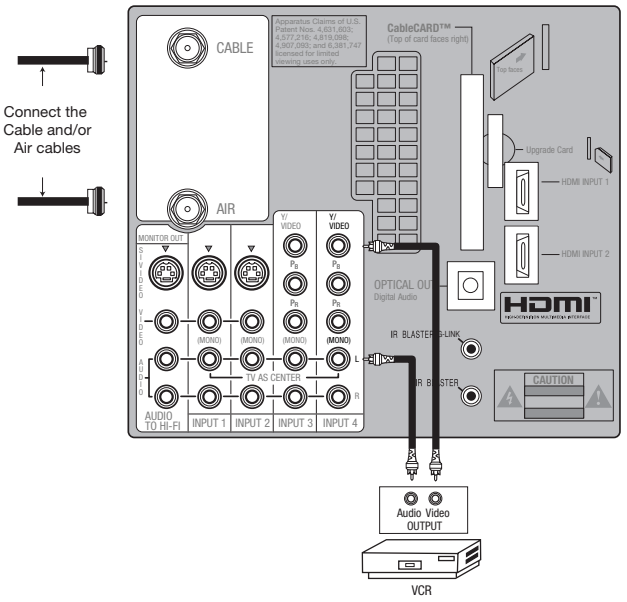
Press the channel (CH) wheel to switch to Favorite (FAV) channel mode. You will know you are in Favorite Channel mode when (FAV) is displayed and the displayed channel is GREEN. Press it again to return to your regular tuned channels. You can add any channel to your Favorite channel list by pressing and holding down the Channel (CH) wheel until the displayed channel turns from WHITE to highlighted GREEN. You can also delete a channel from your favorite channel list by pressing and holding down the Channel (CH) wheel until the displayed channel turns highlighted GREEN to WHITE.

⑱ **(-) DASH button**
Use the (-) DASH button with the CHANNEL SELECTOR buttons to enter Digital Channels that have subchannel numbers indicated by (-) DASH (example 15-1).

⑲ **BACKLIGHT button**
Press this button to light up and illuminate the buttons of the remote control.

Picture-In-Picture (PIP)

Your HITACHI LCD Rear PTV incorporates Two Tuner technology designed for improved viewing enjoyment. This Two Tuner feature allows you to view antenna inputs on both the main picture and sub picture simultaneously, with separate tuning control for each. When a Digital channel is viewed in the main picture, the Digital channel can not be viewed in the sub picture. And when the Analog channel input is viewed in the main picture, the Analog channel input can not be viewed in the sub picture.



To select between main picture and PIP sub picture tuning, use the CURSOR PAD button on the remote. The Green highlighted channel display will move with every press of the CURSOR PAD buttons.

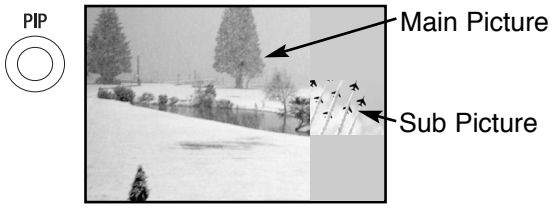
The Picture-in-Picture feature is convenient when you want to watch more than one program at the same time. You can watch a TV program while viewing other programs from any of the video inputs.

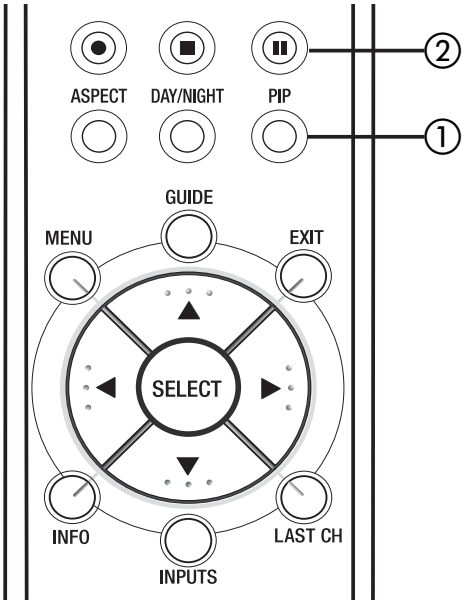
Use the connection diagram to the right to view VCR program (from Input 1-5) as a sub-picture while viewing another program as main picture (**CABLE**, **AIR**). You may also view the VCR program (from Input 1-5) as a main picture while viewing another program as a sub-picture (**CABLE** or **AIR**).

When installing a CableCARD, connect your coaxial cable to **CABLE** (see page 12). **AIR** will not be available while using a CableCARD.

① **PIP button**
Press the PIP button and a sub-picture will appear in one of the four different modes (POP, PIP, SPLIT or SURF), depending on the INPUT signal. To change the PIP mode, use the PIP button to cycle through the four different modes.

POP MODE PICTURE-IN-PICTURE
POP Mode PIP displays the sub-picture outside of the main picture. Use the CURSOR PAD (▲ or ▼) to move the sub-picture. This feature is not available with a 1080i signal. Please refer to the PICTURE-IN-PICTURE MODES Table (see page 29).



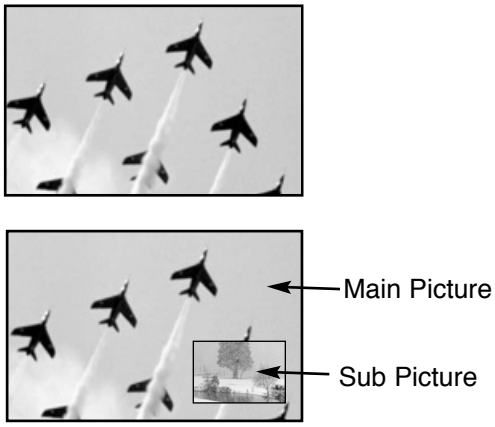


NOTES:
1. *PIP MODE Picture-in-Picture is only available with a 1080i signal.*
2. *Press the CURSOR PAD (◄ or ►) to enable the sub-picture sound.*
3. *Sub-picture channel availability depends on the channel list.*
4. *Two INPUTS cannot be viewed in PIP mode. Only one INPUT (1-5) and one antenna (Cable or Air).*

Picture-in-Picture (PIP)

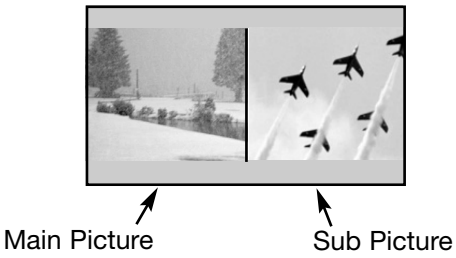
PIP MODE PICTURE-IN-PICTURE

Select AIR from the INPUTS menu. Select a channel that has a 1080i signal. To prevent a pattern burn, occasionally move the sub-picture using the CURSOR PAD.



SPLIT MODE PICTURE-IN-PICTURE

Split Mode PIP displays the main picture and sub-picture evenly on the screen.



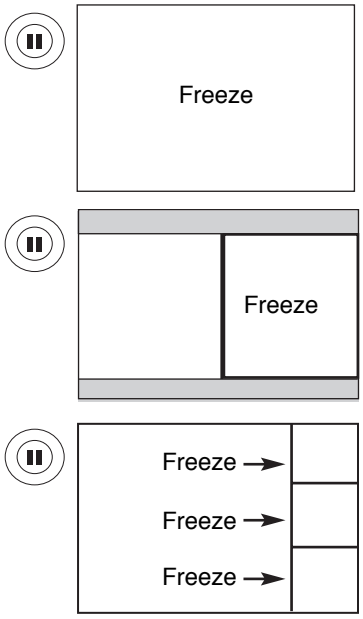
SURF MODE PICTURE-IN-PICTURE

Surf Mode PIP automatically scans all active channels (those set in Memory) and displays them as PIP sub-pictures or Thumbnails. Press the SELECT button to stop on a chosen channel. Use the remote CURSOR PAD ▲, ▼, ◄ or ► to navigate the Thumbnails. Press the SELECT button to restart channel scan or press the EXIT button to enable your chosen channel and return to normal viewing.

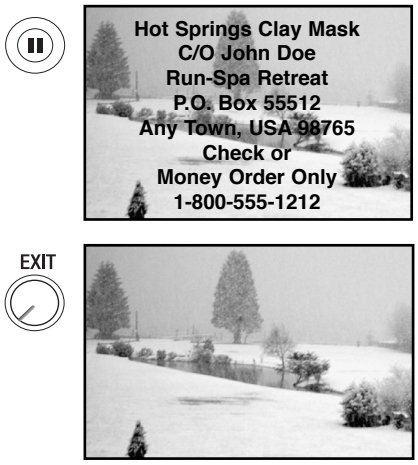
			SUB-IMAGE				
	MAIN PICTURE		Digital Tuner		1080i / 720p	480p / 480i / Analog Tuner / Video / S-Video	
PIP Mode	Format	Aspect	16 : 9	4: 3	16 : 9	16 : 9	4 : 3
POP	ANT Digital	4 : 3	-	-	YES	YES	YES
	480p/480i ANT Analog Video / S-Video	16 : 9	YES	YES	-	-	-
		4 : 3	YES	YES	-	-	-
PIP 4 : 3	ANT Digital	16 : 9	-	-	-	YES	YES
	1080i / 720p	16 : 9	-	YES	-	-	-
PIP 16 : 9	ANT Digital	16 : 9	-	-	YES	YES	YES
	1080i / 720p	16 : 9	YES	-	-	-	-
SPLIT	ANT Digital	16 : 9	-	-	YES	YES	YES
		4 : 3	-	-	YES	YES	YES
	1080i / 720p	16 : 9	YES	YES	-	-	-
	480p / 480I ANT Analog Video / S-Video	16 : 9	YES	YES	-	-	-
		4 : 3	YES	YES	-	-	-
SURF 12 PIX	---	---	YES	YES	-	-	YES[1]

Yes[1]- Available only in analog tuner.

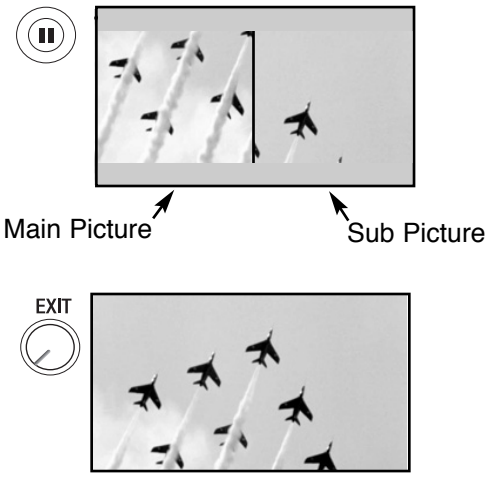
② **PAUSE button**
If you wish to freeze the sub-picture, press the PAUSE button. This is convenient when trying to write down the address for a mail order company, recording statistics for a sporting event, etc. To return the picture to motion, press the EXIT button. Press the PAUSE button repeatedly to toggle between FREEZE modes (Main Freeze, SPLIT and STROBE).



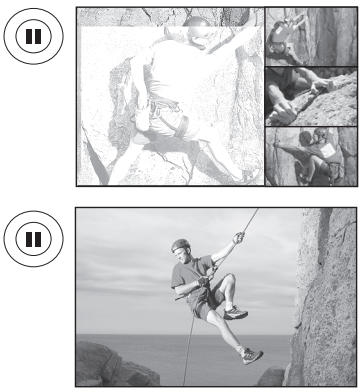
MAIN FREEZE
Press the PAUSE button to freeze one frame of the picture you are currently viewing and the frozen frame will show in the Main Picture. Press the EXIT button to return to normal viewing. This feature is useful for freezing a picture frame with addresses.



SPLIT FREEZE
Press the PAUSE button to freeze the picture you are currently viewing (only the right sub-picture will freeze). Press the EXIT button to return to normal viewing.



STROBE FREEZE
Press the PAUSE button to freeze three frames of the picture you are currently viewing (only the 3 sub-pictures will freeze). Press the EXIT button to return to normal viewing. This feature is useful for viewing a moving picture that has many details, for example, a close play in a sporting event or a golf swing.



NOTE: *1. The default FREEZE mode is the MAIN freeze followed by the SPLIT freeze and then the STROBE freeze. The last FREEZE mode you selected before you pressed the EXIT button will be the one that comes up after pressing the PAUSE button again.*
2. Each freeze frame in Strobe Freeze is delayed about 0.1 (1/10) second.

6

NO

2.
be
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receiver operati

3. The remote control will remember the codes you have programmed until the batteries are removed from the from the remote control. After replacing the batteries repeat the entire programming procedure as stated above.

b
Box/Satel

① **PRE-CODED SET-TOP-BOX/SATELLITE RECEIVER buttons**
These buttons transmit the chosen pre-coded set-top-box/satellite codes.

② **EXCLUSIVE TV buttons**
These buttons are for operating the TV.

The Remote Control for DVD Functions

Operating the precoded function for your DVD player.

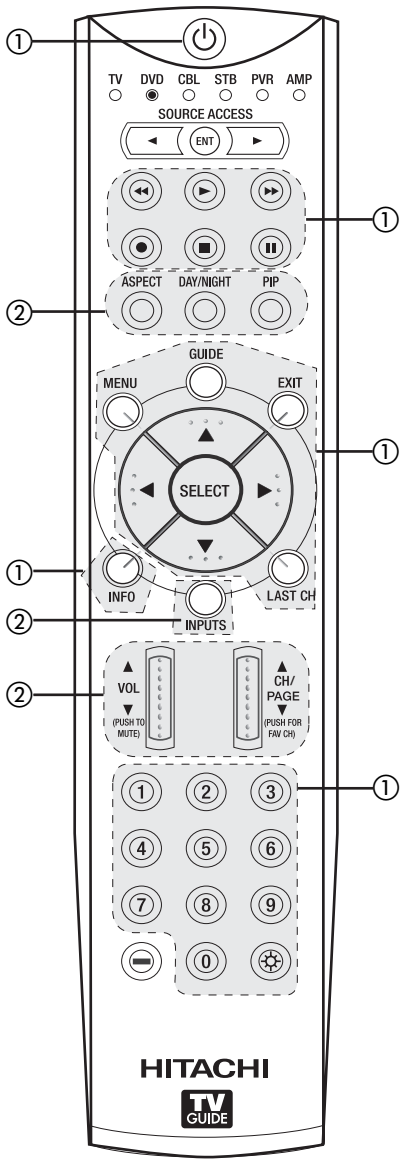
This remote is designed to operate different types of DVD players. You must first program the remote to match the remote system of your DVD player (refer to pages 37-38 for pre-codes).

1. Turn ON your DVD player.
2. Aim the remote control at the front of your DVD player.
3. To switch to DVD pre-coded mode, use the SOURCE ACCESS buttons (◀ or ▶) on the remote control to position the LED light to the corresponding selection.
4. Hold down the ENT button on the remote and enter the four digit preset code that matches your DVD player, as shown on pages 37-38. Release the ENT button. The indicator light will flash 3 times if the code was accepted.
5. Aim the remote at the DVD player and press the POWER button. The remote will turn off your DVD player when the correct four digit preset code is entered. When this occurs, the remote control is programmed for your DVD player. If the DVD player does not turn off, try a different four digit preset code.
6. The remote will now control your DVD player.
7. You will need to set the display type of your DVD player to 16:9 widescreen.

NOTE: *1. If your DVD player cannot be operated after performing the above procedures, your DVD player code has not been precoded into the remote.*
2. In the unlikely event that your DVD player cannot be operated after performing the above procedures, please consult your DVD player operating guide.
3. The remote control will remember the codes you have programmed until the batteries are removed from the from the remote control. After replacing the batteries repeat the entire programming procedure as stated above.

① **PRECODED DVD Buttons**
These buttons transmit the chosen precoded DVD codes.

② **EXCLUSIVE TV Buttons**
These buttons are for operating the TV.



MY DVD PLAYER CODE IS: _____

NOTE: *Refer to instruction manual of the DVD Player for operation of the buttons exclusively for the DVD Player.*

The Remote Control for VCR/PVR Functions

Operating the precoded function for your VCR/PVR (Personal Video Recorder).

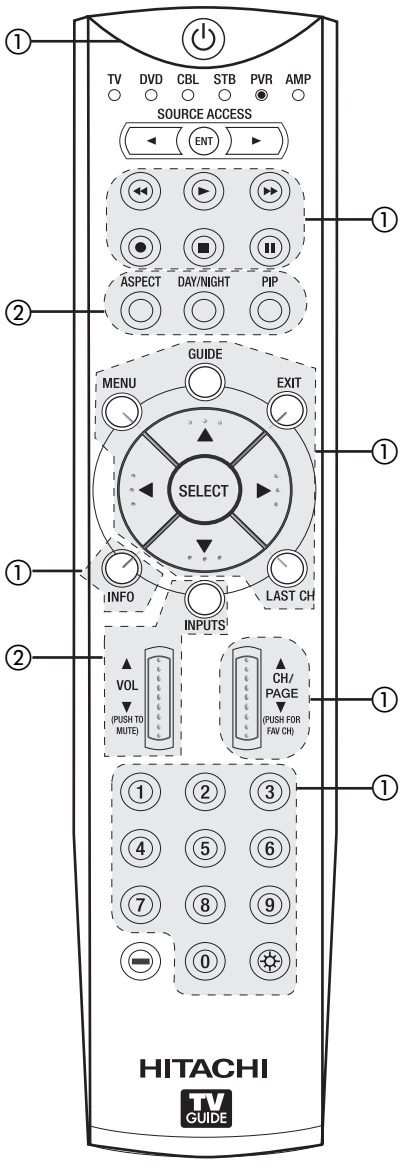
This remote is designed to operate different types of VCRs/PVRs. You must first program the remote to match the remote system of your VCR/PVR (refer to pages 37-38 for pre-codes).

1. Turn ON your VCR/PVR.
2. Aim the remote control at the front of your VCR/PVR.
3. To switch to VCR/PVR pre-coded mode, use the SOURCE ACCESS buttons (◄ or ►) on the remote control to position the LED light to the corresponding selection.
4. Hold down the ENT button on the remote and enter the four digit preset code that matches your VCR/PVR, as shown on pages 37-38. Release the ENT button. The indicator light will flash 3 times if the code was accepted.
5. Aim the remote at the VCR/PVR and press the POWER button. The remote will turn off your PVR when the correct four digit preset code is entered. When this occurs, the remote control is programmed for your VCR/PVR. If the VCR/PVR does not turn off, try a different four digit preset code.
6. The remote will now control your VCR/PVR.

NOTE: *1. If your VCR/PVR cannot be operated after performing the above procedures, your VCR/PVR code has not been precoded into the remote.*
2. In the unlikely event that your VCR/PVR cannot be operated after performing the above procedures, please consult your VCR/PVR operating guide.
3. The remote control will remember the codes you have programmed until the batteries are removed from the from the remote control. After replacing the batteries repeat the entire programming procedure as stated above.

① **PRECODED VCR/PVR Buttons**
These buttons transmit the chosen precoded VCR/PVR codes.

② **EXCLUSIVE TV Buttons**
These buttons are for operating the TV.



MY VCR/PVR CODE IS: _____

NOTE: *Refer to instruction manual of the VCR/PVR for operation of the buttons exclusively for the VCR/PVR.*

The Remote Control for Additional Audio Equipment

Operating the precoded function for your Audio component.

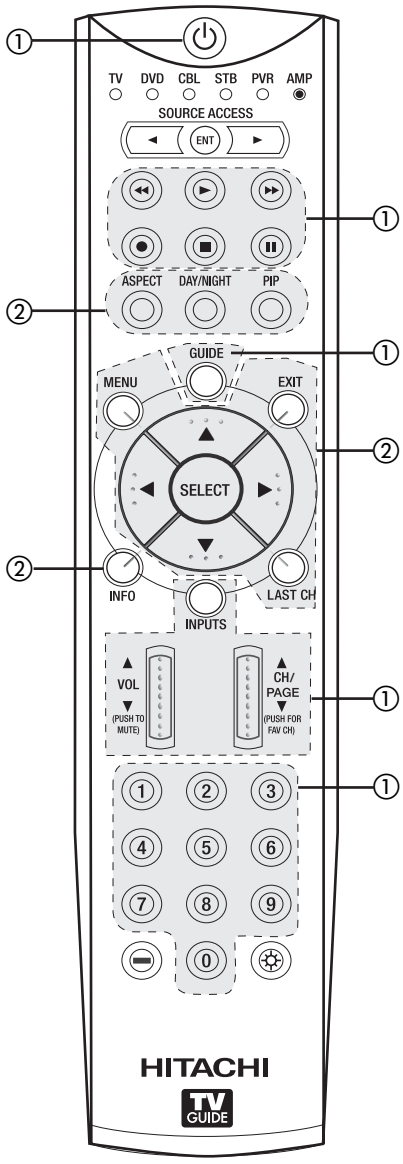
This remote is designed to operate different types of Audio component. You must first program the remote to match the remote system of your Audio component (refer to pages 37-38 for pre-codes).

1. Turn ON your Audio component you wish to control with the Remote.
2. Aim the remote control at the front of your Audio component.
3. To switch to Audio (AMP) component pre-coded mode, use the SOURCE ACCESS buttons (◄ or ►) on the remote control to position the LED light to the corresponding selection.
4. Hold down the ENT button on the remote and enter the four digit preset code that matches your Audio component, as shown on pages 37-38. Release the ENT button. The indicator light will flash 3 times if the code was accepted.
5. Aim the remote at the Audio component and press the POWER button. The remote will turn off your Audio component when the correct four digit preset code is entered. When this occurs, the remote control is programmed for your Audio component. If the Audio component does not turn off, try a different four digit preset code.
6. The remote will now control your Audio component.
7. Repeat steps 1 - 6 if you wish to program the remote to control another Audio component.

NOTE: *1. If your Audio component cannot be operated after performing the above procedures, your Audio component code has not been precoded into the remote.*
2. In the unlikely event that your Audio component cannot be operated after performing the above procedures, please consult your Audio component operating guide.
3. The remote control will remember the codes you have programmed until the batteries are removed from the from the remote control. After replacing the batteries repeat the entire programming procedure as stated above.

① **PRECODED AUDIO Buttons**
These buttons transmit the chosen precoded Audio component codes.

② **EXCLUSIVE TV Buttons**
These buttons are for operating the TV.



MY AUDIO COMPONENT CODE IS: _____

NOTE: *Refer to instruction manual of the VCR/PVR for operation of the buttons exclusively for the VCR/PVR.*

How to Use the ENT Button

INPUT ACCESS

This optional feature allows the user of the remote control to setup it's ENTER (ENT) button to access the specified input of the TV. Setup for this feature is applicable to the remote control's normal mode only and only applies to the DVD, CBL, STB, PVR and AMP modes.

1. Select the desired device mode (DVD, CBL, STB, PVR, or AMP) by using your SOURCE ACCESS buttons (◄ or ►) to position the LED indicator to the corresponding selection.

2. Hold down the ENTER (ENT) button on the remote and enter the four digit preset code that matches your device as shown on pages 37-38.

3. Then enter the assigned input number (1-5) that the device is related to.

4. Release ENTER (ENT) button.

5. If done correctly, the device LED indicator will flash 3 times to confirm proper setup.

6. The remote will now control the desired device.

7. Pressing the ENTER (ENT) button will now access the video input (1-5) of the desired device.

SETUP EXAMPLE (Hitachi DVD with precode 0573 connected to INPUT 1 of the TV)

(1) Select DVD mode by using your SOURCE ACCESS buttons (◄ or ►) to position the LED indicator to DVD.

(2) Hold down the ENTER (ENT) button and press the numbers 0, 5, 7 and 3.

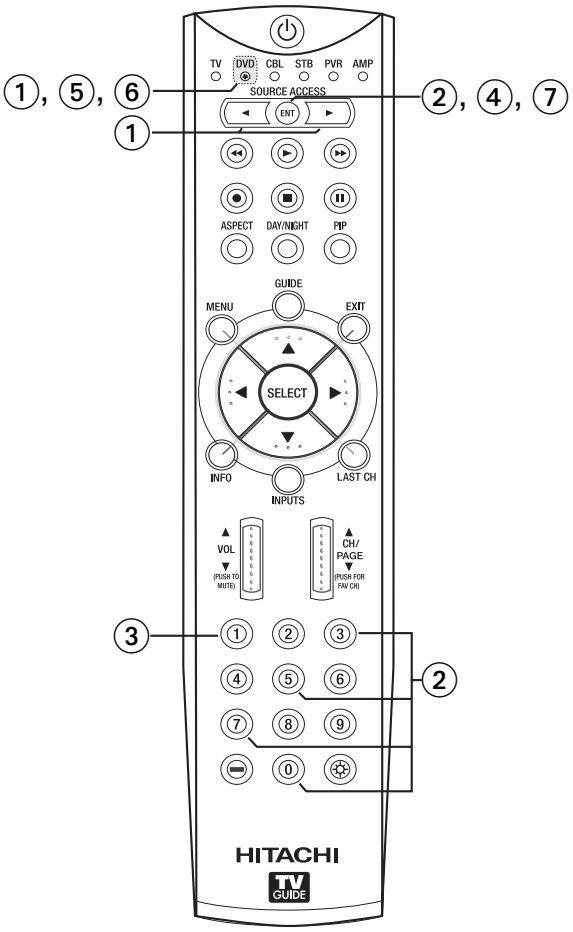
(3) Then press the number 1 for the assigned input number of the DVD player.

(4) Release ENTER (ENT) button.

(5) If done correctly, the device LED indicator will flash 3 times to confirm proper setup.

(6) The remote will now control the DVD player.

(7) Press the ENTER (ENT) button to instantly access the video input of your DVD on Input 1.



NOTE: *1. This feature is optional*
2. Assigned input numbers can be used more than once if applicable.

Remote Control Codes

VCR BRAND .....CODE
ABS 1972
Admiral 0048, 0209
Adventura 0000
Aiko.....0278
Aiwa 0000, 0037, 0307
Akai 0041, 0061, 0106
Alienware 1972
America Action 0278
American High 0035
Asha 0240
Audiovox.....0037, 0278
Beaumark 0240
Bell & Howell 0104
Broksonic.....0121, 0184,
.....0002, 0209, 0479
CCE 0072, 0278
Calix 0037
Canon 0035
Carver.....0081
Cineral 0278
Citizen.....0278, 0037
Colt 0072
Craig 0037, 0072,
.....0047, 0240, 0271
Curtis Mathes 0035, 0041,
.....0060, 0162
CyberPower 1972
Cybernex 0240
Daewoo 0278, 0045, 0561
Dell 1972
Denon 0042
Durabrand.....0039, 0038
Dynatech 0000
Electrohome 0037
Electrophonic 0037
Emerex 0032
Emerson0037, 0184, 000, 0121,
0043, 0209, 0002, 0278, 0061,
..0208, 0212, 0479, 0561, 1593
Fisher 0104, 0047, 0066
Fuji 0033, 0035
Funai.....0000, 1593
GE 0035, 0060, 0240,
.....0202, 0761
Garrard 0000
Gateway 1972
Go Video 0432, 0526
GoldStar 0037, 0038
Gradiente 0000, 0008
HI-Q 0047
HP.....1972
Harley Davidson 0000
Harman/Kardon 0038, 0081
Harwood 0072
Headquarter 0046
Hewlett Packard 1972
Hitachi 0000, 0041, 0042, 0105
Howard Computers.....1972
Hughes Network Systems 0042
iBuy Power 1972
JVC.....0067, 0041, 0008
Jensen 0041
KEC 0037, 0278
KLH.....0072
Kenwood 0041, 0067, 0038
Kodak 0035, 0037
LG.....0037
LXI 0037
Lloyd's 0000, 0208
Logik.....0072
MEI 0035
MGA 0043, 0240, 0061
MGN Technology 0240
MTC 0000, 0240
Magnasonic 0593
Magnavox 0035, 0081, 0563,
0000, 0039, 0593
Magnin 0240
Marantz.....0081, 0035
Marta 0037
Matsushita 0035, 0162, 1162
Media Center PC 1972
Memorex 0035, 0162, 0037,
.....0048, 0039, 0047, 0240,
.....0000, 0104, 0209, 0046,
..0307, 0479, 1037, 1162, 1262
Microsoft 1972
Mind 1972
Minolta 0042, 0105
Mitsubishi 0061, 0043, 0067
Motorola 0035, 0048
Multitech 0000, 0072
NEC 0038, 0041, 0067, 0104
Nikko.....0037
Noblex 0240
Northgate 1972
Olympus 0035
Optimus 0593, 1062, 0162,
.....0037, 0048, 0104, 0432,
.....1048, 1162, 1262
Optonica 0062
Orion....0184, 0209, 0002, 0479
Panasonic 0162, 1062, 0035,
.....0616, 1162, 1262
Penney0035, 0037, 0240, 0042,
.....0038
Pentax 0042, 0105
Philco ..0035, 0209, 0479, 0561
Philips 0081, 0035, 0618,
.....1081, 1181, 0062
Pilot.....0037
Pioneer 0067
Polk Audio.....0081
Profitronic 0240
Proscan 0060, 0202, 0761
Protec 0072
Pulsar 0039
Quarter 0046
Quartz.....0046
Quasar 0035, 0162, 1162
RCA....0060, 0240, 0042, 0105,
.....0106, 0202, 0761, 0880
Radio Shack.....0000, 1037
Radix 0037
Randex. 0037
Realistic.....0035, 0037, 0048,
.....0047, 0000, 0104, 0046,
.....0062, 0066
ReplayTV 0614, 0616
Runco 0039
STS.....0042
Samsung 0045, 0240, 0432
Sanky 0039, 0048
Sansui 0000, 0067, 0209,
.....0041, 0479, 1479, 0271
Sanyo ..0047, 0240, 0104, 0046
Scott 0184, 0045, 0121,
.....0043, 0210, 0212
Sears ..0035, 0037, 0047, 0000,
0042, 0104, 1237, 0046, 0066,
.....0105
Semp. 0045
Sharp 0048, 0848, 0062
Shintom 0072
Shogun 0240
Singer 0072
Sonic Blue 0614, 0616
Sony 0035, 0032, 0000,
.....0033, 0636, 1032, 1972
Sylvania.....0035, 0081, 0000,
.....0043, 0593, 1593
Symphonic 0000, 0593, 1593
Systemax 1972
TMK 0240, 0208
Tagar Systems 1972
Tatung.....0041
Teac 0000, 0041
Technics 0035, 0162
Teknika 0000, 0035, 0037
Thomas.....0000
Tivo.....0618, 0636, 1503
Toshiba 0045, 0043, 0066,
.....0210, 0212, 0366, 0845,
.....1008, 1145, 1503, 1972
Totevision 0037, 0240
Touch 1972
Unitech 0240
Vector 0045
Vector Research 0038
Video Concepts 0045, 0061
Videomagic.....0037
Videosonic 0240
Viewsonic 1972
Wards 0060, 0062, 0035, 0048,
.....0047, 0081, 0240, 0000,
.....0042, 0072, 0212
White Westinghouse.....
.....0072, 0209
XR-1000 .....0072, 0000, 0035
Yamaha 0038
ZT Group 1972
Zenith 0039, 0000, 0209, 0033,
.....0479, 1479

DVD BRAND .....CODE
AMW.....0872
Aiwa 0641
Allegro 0869
Apex Digital ..0672, 0717, 0755,
0794, 0796, 0797, 1004, 1020,
..1056, 1061, 1100, 1915, 1937
Audiovox.....0790, 1072
Axion.....1072
Blaupunkt 0717
Blue Parade 0571
Brooksonic 0695
CAVS 1057
CineVision 0876, 0869
Classic 1917
Coby 1086
Curtis Mathes 1087
CyberHome ..0816, 1023, 1024
DVD2000 0521
Daewoo 0784, 0705,
.....0833, 0869, 1918
Denon 0490, 0634
Dual 1068, 1085
Emerson 0591, 0675
Enterprise 0591
Fisher 0670
Funai.....0675
GE 0522, 0717, 0815
GPX 0699, 0769
Gateway 1073
Go Video 0744, 0715, 0783,
.....0833, 0869, 1075
Gradiente 0651
Greenhill 0717
Grundig.....0705
Harman/Kardon 0702
Hitachi 0573, 0664, 0695
Hiteker 0672
IRT 0783
Initial 0717
Integra 0627
Hiteker 0672
JBL 0702
JVC.....0623, 0558, 0867, 1901
KLH 0717, 0790, 1020
Kawasaki 0790
Kenwood.....0490, 0534
Koss 0651
Lasonic 0798
Lite-On 1058
Magnavox 0503, 0675,
.....1914, 1976
Marantz.....0539
Memorex.....0695
Microsoft 0522
Mintek 0717, 0839
Mitsubishi 0521, 1521
Nesa 0717
Norcent.....1003, 0872
Onkyo 0627, 0503
Oritron.....0651
Panasonic.....0490
Philco 0790
Philips..0503, 0539, 0646, 0854
Pioneer 0525, 0571, 1902
Polaroid 1061, 1086
Polk Audio.....0539
Proscan 0522
Qwestar 0651
RCA.....0522, 0571, 0717,
.....0790, 0822, 1974
Recco 0698
Rio 0869
Rotel 0623
Rowa 0823
Sampo 0698, 0752
Samsung 0490, 0573,
.....0820, 0744, 1075
Sansui.....0695
Sanyo 0670, 0695, 0873
Semp 0503
Sharp 0630, 0752
Shinsonic 0533, 0839
Sonic Blue 0869
Sony 0533
Sylvania 0675
Symphonic 0675
TYT.....0705
Teac 0790
Technics 0490
Theta Digital 0571
Tivo.....1996
Toshiba 0503, 0695, 1045,
.....1988, 1996, 2006
Tredex 0799, 0803
US Logic.....0839
Urban Concepts 0503
Venturer 0790
XBox.....0522
Yamaha 0490, 0545, 0539
Zenith 0591, 0503, 0869

CABLE BRAND.....CODE
ABC 0003, 0008, 0011, 0013,
.....0014, 0017
Allegro 0153, 0315
Americast 0899
Antronix 022
Archer.....022, 0153, 0797
Bell & Howel 0014
Bell South 0899
Cabletenna 0022
Cableview 0022
Century 0153
Citizen.....0153, 0315
ClearMax 0883
Clearmaster 0883
Colour Voice 0025, 0031
Comtronics 0040
Contec 0019
Coolmax 0883
Digi 0637
Director 0476
Dumont 0637
Emerson 0797
Everquest 0015, 0040
Focus 0400
Garrard 0153
Gemini 0015, 0797
General Instrument 0003, 0011,
.....0476, 0276, 0810
GoldStar 0040, 0144
Goodmind 0797
Hamlin 0009, 0020, 0034, 0273
Hitachi 0011

Jasco 0015, 0153, 0315
Jerrold ..... 0003, 0011, 0012, 0014, 0015, 0024, 0276, 0476, ...0810
Memorex 0000
Motorola ..... 0276, 0476, 0810, ...1106, 1254, 1376
Movie Time 0063
Multivision.....0012
NSC 0063
Novaplex.....0618
Oak 0019
Optimus 0021
Pace 0237, 1877
Panasonic.....0000, 0021, 0107
Panther.....0637
Paragon 0000
Philips.....0305, 0317
Pioneer0023, 0025, 0031, 0153, ...0144, 0533, 0877, 1877
Popular Mechanics.....0400
Pulsar 0000
Quasar.....0000
RCA 0021
RadioShack..0015, 0315, 0797, ...0883
Recoton 0400
Regal.....0020, 0273, 0279
Rembrandt 0011
Runco 0000
SL Marx 0040
Samsung 0040, 0144
Scientific Atlanta ....0877, 0008, ...0017, 0477, 1877
Signal 0015, 0040
Signature 0011
Sony 1006
Sprucer.....0021
Starcom 0003, 0015
Stargate 0015, 0040, 0797
Starquest 0015
Supercable 0276
Supermax 0883
TFC.....0310
TV86 0063
Tandy 0258
TeleCaption.....0221
Teleview 0040
Timeless 0040
Tocom.....0012, 0013
Torx.....0003
Toshiba 0000
Tristar 0883
Tusa 0015
Unika 0022, 0153
Universal 0022, 0153, 0191
V2 0883
ViewMaster.....0883
Viewstar 0063, 0258
Vision 0883
Vortex View.....0883
Zenith ..0000, 0054, 0525, 0899
Zentek.....0400

SATELLITE BRAND (Set-Top-Box) .....CODE
AlphaStar 0772
Amway 0043, 0075
Astro Industries.....0095
BSR 0095
Cable Innovations.....0554
Capetronic 0095
Century.....0856
Channel Master 0018, 0212
Chapparral 0053, 0209, 0216
Conifer 0004
Crossdigital 1109
Curtis Mathes 061
DX Antenna 0041
DirecTV .....0392, 0566, 0639, ...1639, 1142, 0247, 0749, ...1749, 0724, 0819, 1856, ...1076, 1109, 0099, 1052, ..1053, 1054, 1442, 1443, 1444
Dish Network System 1005, 0775, 1170
DishPro.....1005, 0775
Drake 0018, 0064, 0245
Echostar .....1005, 0775, 0148, ...0269, 0280, 1170
Expressvu.....0775
GE 0566
GOI.....0775
General Instrument .....0869, ...0547, 0554
Gradiente 0856
HTS 0775
Hitachi.....0819
homecable 0238
Hughes Network Systems 1142, ..0749, 1749, 1442, 1443, 1444
Hytek 0095
IQ 0210
IQ Prism 0210
Innova.....0099
Intersat 0043
JVC.....0775, 1170
Janeil 0152
Legend 0269
Macom 0018, 0061
Magnavox.....0724, 0722
Memorex.....0724, 0269
Mitsubishi 0749
Motorola 0869
Netsat 0099
Next Level.....0869
Norsat 0004
Pace 0455
Panasonic.....0247, 0701, 0152
Paysat.....0724
Philips 1142, 0749, 0724, 1076, ...0722, 1749, 0856, 0099
Pico.....0075
Proscan 0392, 0566
RCA 0392, 0566, 0855, 0143
Radioshack.....0869, 0554
Ramsey 0075
Realistic 0052
SKY 0856, 1856, 0099
STS.....0041, 0210
Samsung.....1276, 1109
Sony 0639, 1639
Star Choice.....0869
Star Trak.....0180, 0421, 0547
Strong 0421
Tivo 1142, 1442, 1443, 1444
Toshiba .....0749, 1749, 0790, ...0061, 0082, 1052, 1053, ..1054, 1285, 1286, 1287, 1289
Town & Country 0547
Uniden0724, 0722, 0052, 0074, ...0076, 0238, 0370, 0554
Zenith ..0856, 1856, 0061, 0064

AMPLIFIER BRAND .....CODE
Aiwa.....0406
Bose 0674
Carver.....0269
Curtis Mathes 0300
Denon 0160
Durabrand.....1561
GE 0078
Harman/Kardon 0892
JVC 0331
Left Coast 0892
Lenoxx 1561
Linn 0269
Luxman.....0165
Magnavox 0269
Marantz 0269, 0321, 0892
NEC 0264
Nakamichi.....0321
Optimus 0395, 0300
Panasonic.....0308, 0521
Parasound 0246
Philips.....0269, 0892
Pioneer 0013, 0300
Polk Audio 0269, 0892
RCA 0300
Realistic.....0395
Sansui.....0321
Shure 0264
Sony 0815, 0689, 0220
Soundesign.....0078, 0211
Technics 0308, 0521
Toshiba 0353
Victor 0331
Wards 0013, 0078, 0211
Yamaha 0354, 0133

RECEIVER BRAND (Amplifier) CODE
ADC 0531
Aiwa....1405, 0121, 0158, 0189, 0405
Anam 1074, 1609
Arcam 1120
Audiotronic 1189
Bose 0639, 1229, 1253
Capetronic 0531
Carver.....1189, 0042, 0189
Casio 0195
Clarinette 0195
Coby 1263
Compaq 1136
Curtis Mathes 0080
Dell 1383
Denon 0004, 1360
Fisher 0042
Garrard 0463
Glory Horse 1263
Harman/Kardon 0891, 0110, 0189
Hewlett Packard 1181
Hitachi.....0228
Integra 0135
JBL 0110
JVC.....0074, 1263
KLH.....1428
Kenwood .....1313, 1570, 1569, ...0027, 0042, 0186, 0239
LXI 0181
Linn 0189
Lloyd's.....0195
MCS 0039
Magnavox 1189, 1269, 0189, 0195, 0391, 0531
Marantz1189, 0039, 0189, 1269
Mitsubishi 1393
Modulaire 0195
Musicmagic.....1089
Nakamichi.....0097
Onkyo 0135, 0842
Optimus .....1023, 0042, 0080, ...0177, 0181, 0186, 0219, ..0531, 0670, 0738, 0801, 1074
Panasonic 1518, 0039, 0309, 0367
Penney 0195
Philips .....1189, 1269, 0189, ...0391, 1120
Pioneer .....1023, 0014, 0080, ...0150, 0244, 0531, 0630
Polk Audio.....0189
Proscan 1254
Quasar 0039
RCA.....1023, 1254, 0080, ...0531, 1074, 1609
Radio Shack 1263
Realistic 0181, 0195
Rio 1383
Sansui.....0189
Sanyo 0801, 1251
Scott 0163, 0322
Sharp 0186
Sharper Image 1263
Sherwood 0491, 0502
Sonic Blue 1383
Sony ..1058, 1441, 1759, 0158, ...0474, 1349, 1406, 1442
Soundesign.....0670
Stereophonics.....1023
Sunfire 1313
Teac 0463, 1074
Technics.....1308, 1518, ...0039, 0309
Thorens.....1189
Toshiba 1572
Victor 0074
Wards .0014, 0080, 0158, 0189
Yamaha.....0176, 0186, 1176
Yorx. 0195
Zenith 0857

AUDIO BRAND .....CODE
Aiwa 0010, 0159
AudioSource.....0351
Cambridge Soundworks 0351
Carver.....0351
Fisher 0052
Fosgate.....0259
Harmon/Kardon 0477
JBL 0477
JVC.....0073
KLH.....0351
Magnavox.....0325
Nikko.....0376
Paramount Pictures 0317, 0351
RCA 0056
SSI 0317
Sansui.....0325
Schneider 0376
Sony 0010, 0576
Soundesign.....0376
Yorx.....0376

SET TOP BOX BRAND..CODE
Panasonic 1120
Pioneer 1010
Princeton.....0113, 0295
Samsung.....1190
Sensory Science.....1126
Sharp 1010
Sony 0639

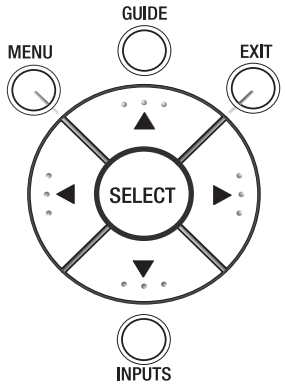
PERSONAL VIDEO RECORDER BRAND.....CODE
Panasonic.....0616
Philips 0618
ReplayTV 0614, 0616
SonicBlue 0614, 0616
Sony 0636
Tivo.....0618, 0636

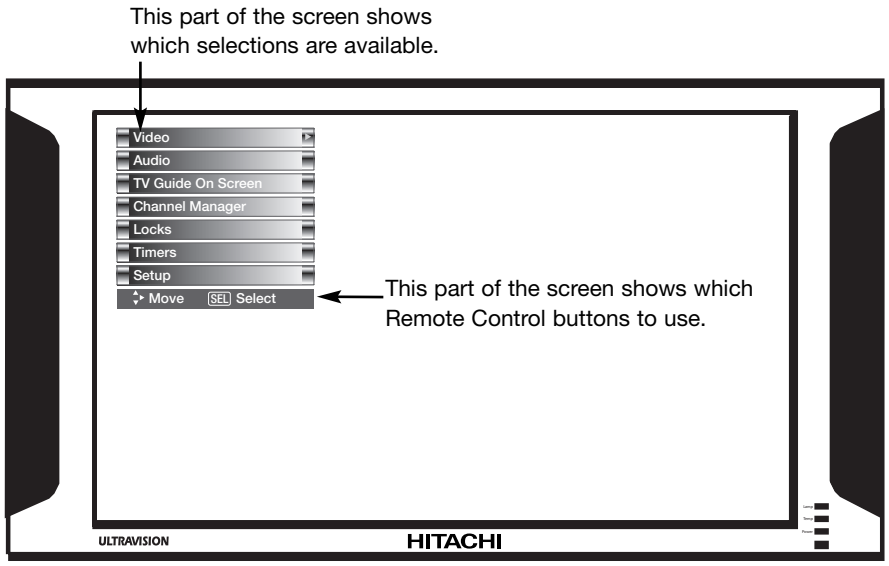
On-Screen Display

1. Press **MENU** on the remote control to display the different features on your **HITACHI** LCD Rear Projection TV.

2. Press the **CURSOR** buttons to navigate and highlight a different feature of the On-Screen Display menu. Press the **SELECT** button to select.

3. Press **EXIT** on the remote control to quickly exit from a menu.





Video

Picture Mode	Select between the two picture modes; Day and Night.
Contrast	Adjust contrast.
Brightness	Adjust brightness.
Color	Adjust color.
Tint	Adjust tint.
Sharpness	Adjust sharpness.
Color Temperature	Set this to High for less intense color with more blue, set to Medium for natural color, set to Standard for standard colors or Black and White for more reddish color.
Black Enhancement	Enhance picture brightness in light scenes.
Contrast Mode	Choose Automatic Contrast settings.
Noise Reduction	Reduces conspicuous noise in the picture.
Auto Movie Mode	Turn ON/OFFthe 3:2 Pulldown detection feature.
Aspect	Choose the picture format aspect ratio.
Black Side Panel	Set the gray side bars on/off when watching 4:3 signals in standard mode.
Reset Video Settings	Choose the Reset Video settings.

Audio

Treble	Adjust the treble.
Bass	Adjust the bass.
Balance	Adjust the balance.
SRS	Select SRS settings (Off, Wide, Normal)
BBE	Select BBE settings (Off, Soft, Hard)
Audio Source	Select between three Audio Sources.
Internal Speakers	Select internal or external speakers.
Auto Noise Cancel	Eliminates the noise between stations.
Perfect Volume	Adjust volume in fixed setting.
Loudness	Adjust Loudness.
Language	Select Language options if available.
Digital Output	Select Optical Output options.
DRC	Select Dynamic Range Compression to ON or OFF.

TV Guide On Screen

TV Guide On Screen	Set, Control and navigate the system.

Channel Manager

Signal Meter	Access Signal Meter.
Auto Channel Scan	Set Auto Channel Scan.
Channel List	Set Channel List.

Locks

Change Access Code	Change Lock access code.
Engage Lock	Choose to lock channel or front panel.
Movie Ratings	Block various types of movies and video types based on motion picture ratings.
TV Ratings	Block various types of movies and television programming based on a parental guide ratings.
Canadian Ratings (ENG)	Block various types of movies and television programming based on the Canadian ratings system.
Canadian Ratings (FRN)	Block various types of movies and television programming based on the Canadian French ratings system.

Timers

Set the Clock	Set Clock Settings.
Set Sleep Timer	Set Sleep Timer intervals (30 min. intervals, 00:30-3:00).
Set Day/Night Timer	Set Day/Night picture mode settings.

Setup

Menu Preference	Choose English, French, or Spanish text.
Lamp Power Control	Automatic Power Saving Feature.
Set The Inputs	Label Video Inputs, VCR, DVD, etc.
Set AV NET	Set AV NET Wizard
Set Closed Captions	Feature to display dialogue/text.
Set Monitor Out	Set Monitor Out source.
Upgrades	Select to upgrade TV software.
Quick Start Up	Select the TV Quick Start Up options.

NOTES:

1. ***The Signal Meter feature of the Channel Manager OSD is only available for Digital signals.***
2. ***The Language, Digital Output, and the Dynamic Range Compression feature of the Audio OSD are only available for Digital channels.***

Video

Color Temperature
Set this to High for cooler color with more blue, set to Medium for more natural color, set to Standard for accurate color or set to Black/White for more reddish color.

Black Enhancement
Use this function to enhance Picture brightness in light scenes using the settings off, low, middle and high.

Contrast Mode
Use this function to choose between 2 Contrast Mode settings. Set to Dynamic for darker images more in the level of Black and set to Normal for a balanced White to Black level.

NOTE: *1. If **CONTRAST** is selected, you are adjusting **CONTRAST.** The additional menu items **BRIGHTNESS, COLOR, TINT,** and **SHARPNESS** can be selected and adjusted in the same manner.*
*2. It may be necessary to adjust **TINT** to obtain optimum picture quality when using the **COMPONENT VIDEO Y-PBPR** input jacks.*
*3. **CABLE** and **AIR** share a Video setting. Also, each of the video inputs have their own independent settings.*
4. If CONTRAST is set to minimum level, the OSD will be difficult to see.

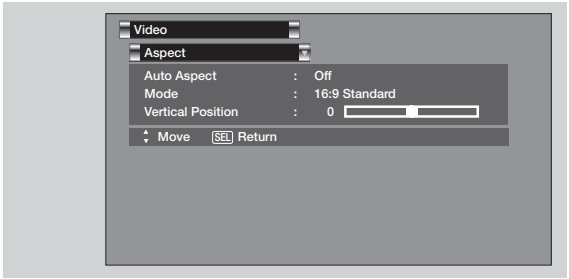
Noise Reduction
The **NOISE REDUCTION** function automatically reduces conspicuous noise in the picture without degrading picture quality. Set **NOISE REDUCTION** to **OFF** if the TV experiences picture blocking. When Noise Reduction is set to High, Sharpness function is disabled (grayed out).

Auto Movie Mode
The Auto Movie Mode turns the 3:2 PULLDOWN DETECTION SPECIAL FEATURE ON or OFF. Theatrical movies are shot on film at 24 frames or still pictures per second, instead of 30 frames or 60 fields like video. When film is transferred to video for television viewing, the disparity between the two frame rates must be reconciled. This involves a process known as 3:2 pulldown.

When Auto Movie Mode is turned ON from the VIDEO menu, your Hitachi LCD Rear Projection Television will activate the circuitry for this special feature to improve video performance when watching film based sources.

NOTE: *1. When using Progressive Scan Component, HDMI or DVI input (ex. 480p, 740p, 1080i), Auto Movie Mode will not be available (grayed out).*
2. All video settings are independent of each other based on it's input (Cable, Air, Input 1~5, Photo Input).

Aspect
Use this function to select the Picture Format Aspect Ratio.



1. Use the **CURSOR PAD** ▲ or ▼ to highlight the function to be adjusted.

2. Press the **CURSOR PAD** ◀ or ▶ to select **ON** or **OFF.**

3. Press the **CURSOR PAD** ◀ or ▶ to select **ASPECT MODE.**

Auto Aspect
Automatically adjust the Aspect Ratio depending on the input signal to fill the screen.

NOTE: *1. The Auto Aspect function is recommended on an input signal with **VIDEO ID.***
*2. The Auto Aspect function is best used on **COMPOSITE VIDEO, S-VIDEO, 480i** and **480p COMPONENT/HDMI** signals.*
*3. See page 23 for **ASPECT MODE** availability.*

4. Press the **CURSOR PAD** ◀ or ▶ to select **VERTICAL POSITION.**

Vertical Position

This function allows you to select when aspect style is either **4:3 EXPANDED/ZOOM1/ZOOM2** or **16:9 ZOOM.** Vertical position can be changed with these modes. For example, it will be useful for centering the picture area at both the top and bottom of the picture with 480i/480P signal. Adjustable range is -10 (video center is toward bottom of screen) to +10 (video center is toward top of screen).

NOTE: *Vertical Position will not be available in **4:3 STANDARD** and **16:9 STANDARD MODES.***

5. Press **MENU** to return to main menu or select **PICTURE MODE** to return to previous menu.

6. Press **EXIT** to quit menu.

Black Side Panel

The BLACK SIDE PANEL function turns the gray side bars on/off when watching 4:3 signals in Standard mode. The top/bottom gray bar will appear in SPLIT MODE PIP and SPLIT FREEZE. The TV set will always return to "Set Black Side Panel - OFF" setting every time the TV is powered "OFF".

Reset Video Settings

This function allows you to Reset the Video Menu Settings of the present input and return it to the Day VIDEO mode.

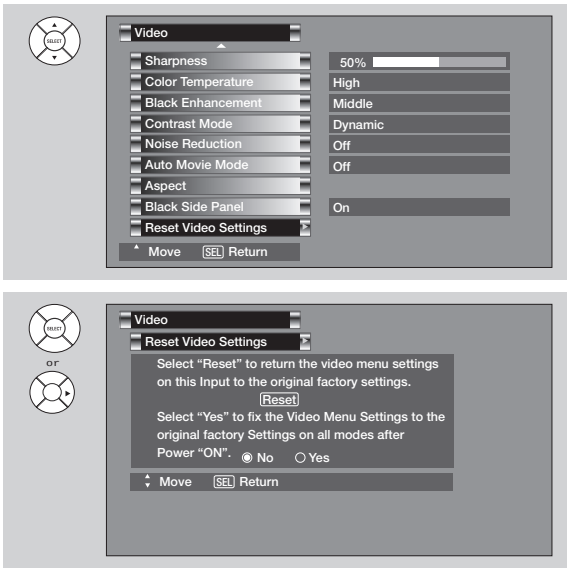
1. Use the **CURSOR PAD** ▲ or ▼ to highlight the function to be adjusted.

2. Press the **SELECT** button to select **RESET VIDEO SETTINGS**.

3. Use the **CURSOR PAD** ▼ to access other video settings.

You can customize each of the Video Inputs to your preference to increase viewing performance and pleasure, depending upon the video program being viewed. If **RESET** is selected, only the selected Input will reset to the initial conditions as explained above.

If **RESET** is selected in INPUT 1, only INPUT 1 will return to factory conditions.



NOTE: *1. If YES is selected, the **VIDEO MENU SETTINGS** will be reset to the original factory settings on all modes during the next power on/off*

2. Channel List, Volume level and Last-CH selection remains unchanged.

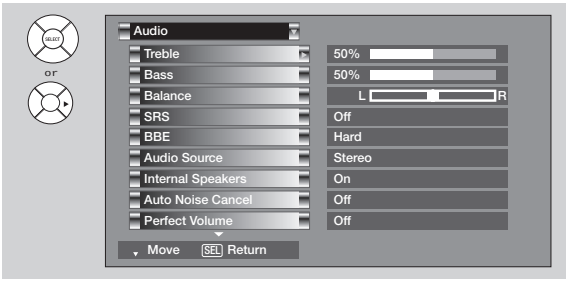
Audio

Select AUDIO to adjust the TV to your preference and to improve the sound quality.

1. Use the **CURSOR PAD** ▲ or ▼ to highlight the function to be adjusted.

2. Press the **CURSOR PAD** ◀ or ▶ to adjust the function.

3. Press **EXIT** to quit the menu or select **AUDIO** to return to the main menu.



NOTE: *If **TREBLE** is selected you are adjusting **TREBLE**. The additional menu items **BASS** and **BALANCE** can be selected and adjusted in the same manner.*

Treble
This function controls the high frequency audio to all speakers.

Bass
This function controls the low frequency audio to all speakers.

Balance
This function will control the left to right balance of the Projection TV internal speakers.

SRS
Based on the principles of the human hearing system, **SRS** technology delivers and exciting and realistic 3D Sound experience from just two external speakers (or) the two internal speakers of your **HITACHI** Television. If your **HITACHI** Television is connected to an external audio system, **SRS** will also create an incredible 3D sound experience from two speakers and even enhance a complete multi-speaker surround sound system.

SRS and the (●) symbol are trademarks of SRS Labs, Inc. SRS technology is incorporated under license from SRS Labs, Inc.

BBE
Sound reproduction quality enhancement system. The **BBE** technology produces sound that is natural and crisp from just two speakers or the two internal speakers found in your **HITACHI** television. If your **HITACHI** television is connected to an external audio system, **BBE** will also create an incredible crisp sound experience from two speakers. **BBE** brings to the listener's ear a more complete and accurate reproduction of the original performance. Each voice, speaking or singing, each instrument or sound effect is presented with its attendant harmonics or partials more clearly audible. The ear can then more easily recognize the unique tonal colors of each sound as though the sound was being produced live.

Licensed by BBE Sound, Inc. under USP5510752 and 5736897. BBE and BBE symbol are registered trademarks of BBE Sound, Inc. Manufactured under license from BBE Sound, Inc.

Audio

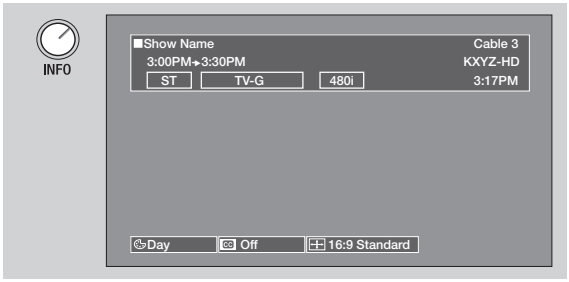
Audio Source
Multi-Channel Television Sound will allow you to select **STEREO** (a stereo broadcast), **MONO** (monaural sound) used when receiving a weak stereo broadcast or **SECOND AUDIO PROG** (SA) which may be a secondary language, weather report, etc.

The sources received will be displayed at the top left edge of the TV. See example to the right for each source received..

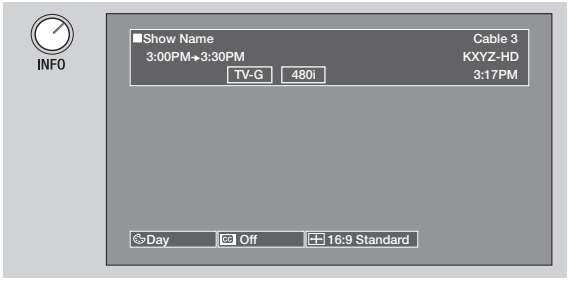
1. Press the **INFO** button to display your settings.

NOTE: *1. When a monaural (MONO)audio broadcast source is received, no label will be displayed.*
2. When a ST/SA label is displayed, the audio source being received will be both STEREO and SECOND AUDIO.

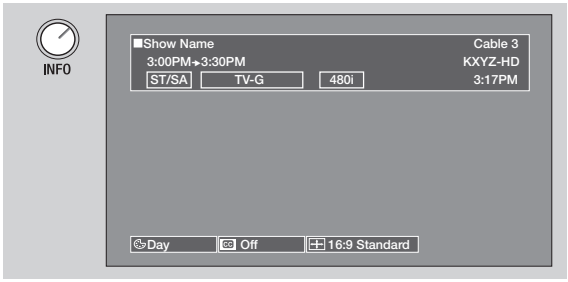
STEREO (ST)



MONO



SECOND AUDIO PROGRAM (SA)



Internal Speakers
This function is useful when setting up the external speakers.

ON	Select this feature if using the internal speakers only.
TV as Center	Select this feature when setting up external speakers from a separate stereo system. The TV's speakers will work as the center speaker.
OFF	Select this feature if you prefer to use only speakers from a separate stereo system.

Auto Noise Cancel
This function eliminates the noise between stations. If a channel is tuned and is noisy, this function will automatically eliminate the audio for that channel.

Perfect Volume
This function will automatically adjust volume so each channel and input has the same average volume level.

Loudness
This function turns loudness **ON** or **OFF**. It will improve the quality of both low and high frequency sounds when listening at low volume levels.

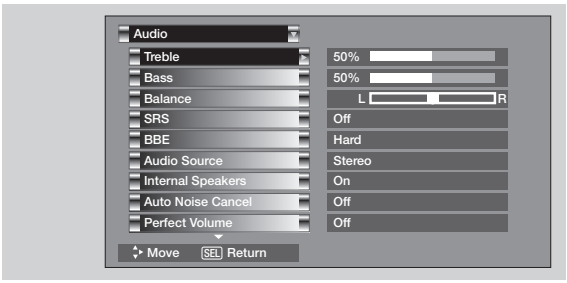
Audio

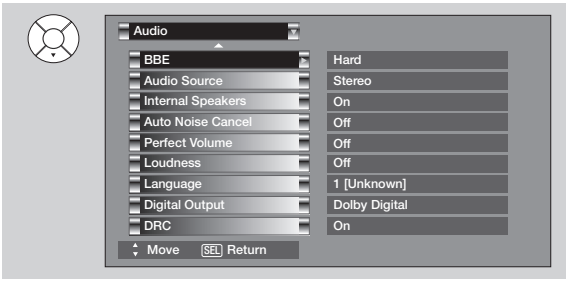
Use the functions below if your TV is connected to an amplifier/receiver with **OPTICAL DIGITAL INPUT** with Dolby Digital or PCM decoder capabilities.

1. Use the **CURSOR PAD** ▲ or ▼ to highlight the function to be adjusted.

2. Press the **CURSOR PAD** ◀ or ▶ to adjust the function.

3. Press **EXIT** to quit the menu or select **AUDIO** to return to the main menu.





Language
Some programs transmit more than one DTV language option. Most will have English as a default language. The language function will allow you to select up to 4 language options (if available).

Digital Output
This function allows you to select between Dolby® Digital and PCM.

Dolby® Digital	Select this feature if the TV is connected to an amplifier/ receiver with a Dolby® Digital only decoder; it will provide six independent soundtrack channels through the optical output jack (Digital Audio).
PCM	Select this feature if the TV is connected to an amplifier/ receiver with a PCM only decoder; it will provide two independent soundtrack channels through the optical output jack (Digital Audio).

Manufactured under license from Dolby Laboratories. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories.

DRC
Dynamic Range Compression - Use this function to compress the range of sound volume. By compressing the range of sound volume, it is possible not only to suppress the output of loud sound at night but also to raise the volume of low sound. This is only effective when the TV is connected via the optical out (digital audio) to an amplifier/receiver with a Dolby® Digital decoder. The default setting is ON. Use the **CURSOR PAD** ◀ or ▶ to select the chosen options.

NOTE: *These functions are only available when viewing digital programs.*

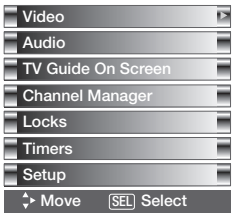
TV Guide On Screen

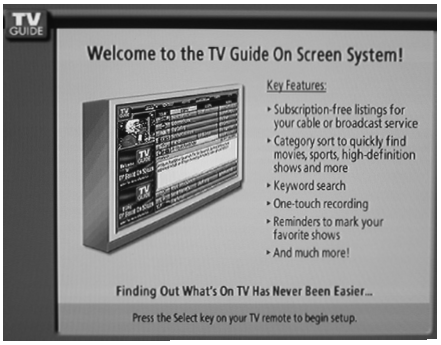
The TV Guide On-Screen system is a built-in feature that provides a channel lineup and program listings in your area. Once the setup process is complete, the program listings are automatically updated several times a day. This interactive guide can also be programmed to receive listings from a cable box or record your favorite shows using a VCR.

If using a Cable Box or VCR, you must first setup the LCD Rear PTV as shown on Page 20.

To Setup the TV Guide On Screen System:

1. Press the MENU button. Use the CURSOR PAD ▼ to highlight TV GUIDE ON SCREEN, then press the SELECT button.



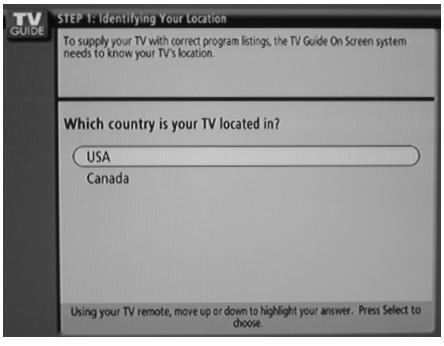

TV GUIDE
Welcome to the TV Guide On Screen System!
Key Features:
Subscription-free listings for your cable or broadcast service
Category sort to quickly find movies, sports, high-definition shows and more
Keyword search
One-touch recording
Reminders to mark your favorite shows
And much more!
Finding Out What's On TV Has Never Been Easier...
Press the Select key on your TV remote to begin setup.

Note: Pressing the GUIDE button also allows you immediate access to this feature.

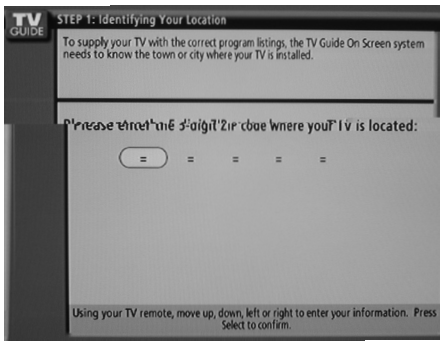
2. Press the SELECT button to continue.

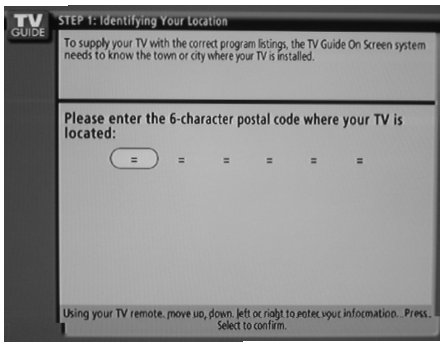
Setup Procedure:

Screen 1: Select which country your TV is located in:
Use the CURSOR PAD ▲ and ▼ to highlight your TV location (USA or CANADA), then press the SELECT button to continue.

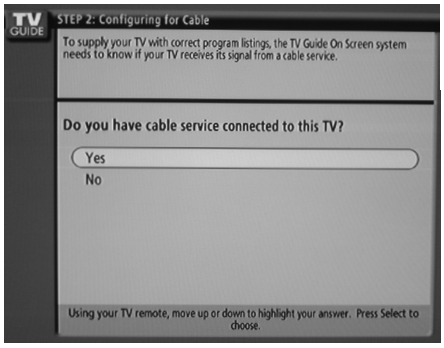

TV GUIDE
STEP 1: Identifying Your Location
To supply your TV with correct program listings, the TV Guide On Screen system needs to know your TV's location.
Which country is your TV located in?
USA
Canada
Using your TV remote, move up or down to highlight your answer. Press Select to choose.

Screen 2: Enter the ZIP code (USA) or postal code (Canada):
Use the Numeric buttons and the CURSOR PAD ▲ and ▼ for letter entries to enter the ZIP code (USA) or postal code (CANADA) of your location.


TV GUIDE
STEP 1: Identifying Your Location
To supply your TV with the correct program listings, the TV Guide On Screen system needs to know the town or city where your TV is installed.
Please enter the 5-digit ZIP code where your TV is located:
Using your TV remote, move up, down, left or right to enter your information. Press Select to confirm.


TV GUIDE
STEP 1: Identifying Your Location
To supply your TV with the correct program listings, the TV Guide On Screen system needs to know the town or city where your TV is installed.
Please enter the 6-character postal code where your TV is located:
Using your TV remote, move up, down, left or right to enter your information. Press Select to confirm.

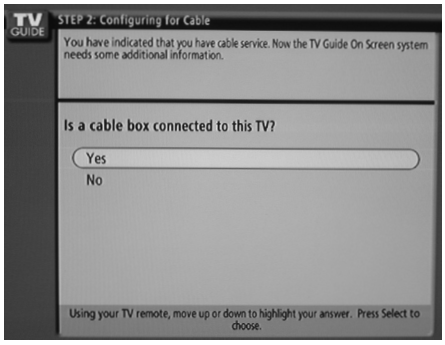
Screen 3:
Do you have Cable service connected?
Use the CURSOR PAD ▲ and ▼ to highlight your choice, then press the SELECT button to continue.
If YES: Please see Screen 4.
If NO: Please see Screen 12.


TV GUIDE
STEP 2: Configuring for Cable
To supply your TV with correct program listings, the TV Guide On Screen system needs to know if your TV receives its signal from a cable service.
Do you have cable service connected to this TV?
Yes
No
Using your TV remote, move up or down to highlight your answer. Press Select to choose.

TV Guide On Screen

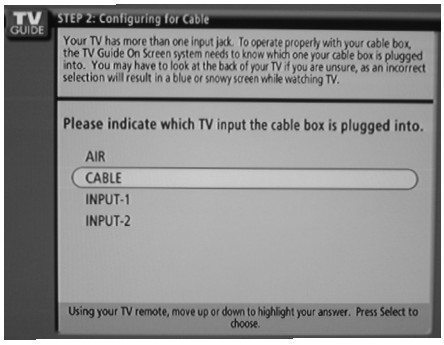
Screen 4:

Do you have a Cable box connected?
Use the CURSOR PAD ▲ and ▼ to highlight your choice, then press the SELECT button to continue.
If YES: Please see Screen 5.
If NO: Please see Screen 12.


TV GUIDE
STEP 2: Configuring for Cable
You have indicated that you have cable service. Now the TV Guide On Screen system needs some additional information.
Is a cable box connected to this TV?
Yes
No
Using your TV remote, move up or down to highlight your answer. Press Select to choose.

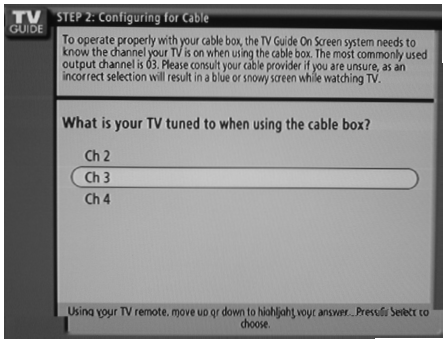
Screen 5:

Which TV input is the Cable box plugged into?
AIR/CABLE: Please see Screen 6.
INPUT 1/2: Please see Screen 7.


TV GUIDE
STEP 2: Configuring for Cable
Your TV has more than one input jack. To operate properly with your cable box, the TV Guide On Screen system needs to know which one your cable box is plugged into. You may have to look at the back of your TV if you are unsure, as an incorrect selection will result in a blue or snowy screen while watching TV.
Please indicate which TV input the cable box is plugged into.
AIR
CABLE
INPUT-1
INPUT-2
Using your TV remote, move up or down to highlight your answer. Press Select to choose.

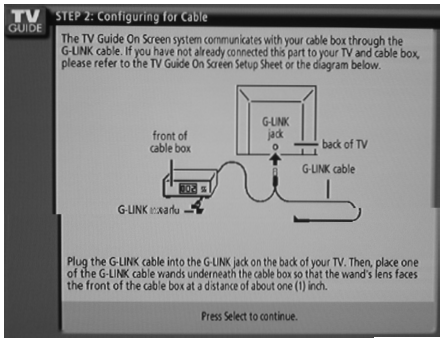
Screen 6:

Select the channel your TV is tuned to when using a Cable box. Use the CURSOR PAD ▲ and ▼ to highlight your choice, then press the SELECT button to continue.


TV GUIDE
STEP 2: Configuring for Cable
To operate properly with your cable box, the TV Guide On Screen system needs to know the channel your TV is on when using the cable box. The most commonly used output channel is 03. Please consult your cable provider if you are unsure, as an incorrect selection will result in a blue or snowy screen while watching TV.
What is your TV tuned to when using the cable box?
Ch 2
Ch 3
Ch 4
Using your TV remote, move up or down to highlight your answer. Press Select to choose.

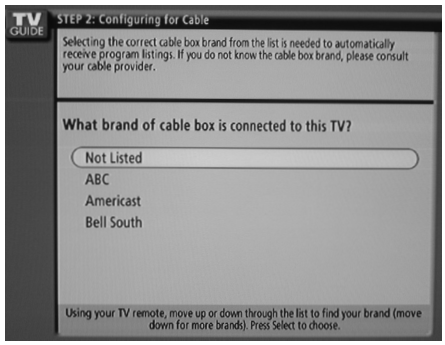
Screen 7:

This screen shows the correct way to setup the Cable box with the G-LINK. Please confirm connection (see Page 20). Press the SELECT button to continue.


TV GUIDE
STEP 2: Configuring for Cable
The TV Guide On Screen system communicates with your cable box through the G-LINK cable. If you have not already connected this part to your TV and cable box, please refer to the TV Guide On Screen Setup Sheet or the diagram below.
G-LINK jack
front of cable box
back of TV
G-LINK cable
G-LINK wand
Plug the G-LINK cable into the G-LINK jack on the back of your TV. Then, place one of the G-LINK cable wands underneath the cable box so that the wand's lens faces the front of the cable box at a distance of about one (1) inch.
Press Select to continue.

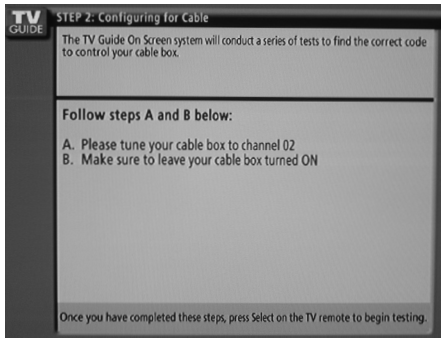
Screen 8:

Use the CURSOR PAD ▲ and ▼ to highlight your Cable box brand or choose “Not Listed” if not listed, then press the SELECT button to continue.


TV GUIDE
STEP 2: Configuring for Cable
Selecting the correct cable box brand from the list is needed to automatically receive program listings. If you do not know the cable box brand, please consult your cable provider.
What brand of cable box is connected to this TV?
Not Listed
ABC
Americast
Bell South
Using your TV remote, move up or down through the list to find your brand (move down for more brands). Press Select to choose.

Screen 9:

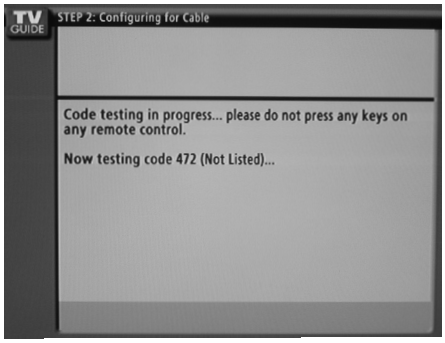
To allow the TV Guide On-Screen system to find the correct code for your brand of Cable box, tune the Cable box to channel 2. Please make sure that the Cable box and TV are ON. Press the SELECT button to continue.


TV GUIDE
STEP 2: Configuring for Cable
The TV Guide On Screen system will conduct a series of tests to find the correct code to control your cable box.
Follow steps A and B below:
A. Please tune your cable box to channel 02
B. Make sure to leave your cable box turned ON
Once you have completed these steps, press Select on the TV remote to begin testing.

TV Guide On Screen

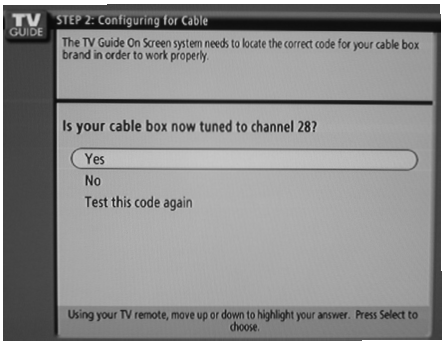
Screen 10:

The TV Guide On Screen system will test the code of your Cable box. No TV, Cable or remote buttons should be pressed while performing the automatic test. After the testing process is complete, the setup procedure will continue, see screen 11.


TV GUIDE
STEP 2: Configuring for Cable
Code testing in progress... please do not press any keys on any remote control.
Now testing code 472 (Not Listed)...

Screen 11:

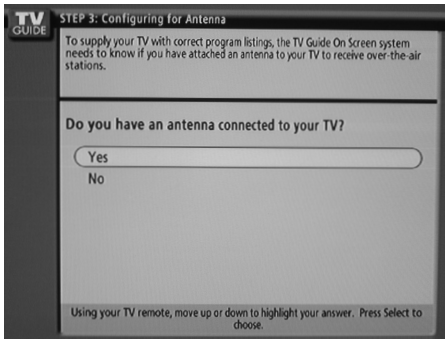
Did your Cable box tune to channel 28?
Use the CURSOR PAD ▲ and ▼ to highlight your choice, then press the SELECT button to continue.
If YES: Please see screen 12.
If NO: Select NO to test a different code or select TEST THIS CODE AGAIN to test the same code.


TV GUIDE
STEP 2: Configuring for Cable
The TV Guide On Screen system needs to locate the correct code for your cable box brand in order to work properly.
Is your cable box now tuned to channel 28?
Yes
No
Test this code again
Using your TV remote, move up or down to highlight your answer. Press Select to choose.

Screen 12:

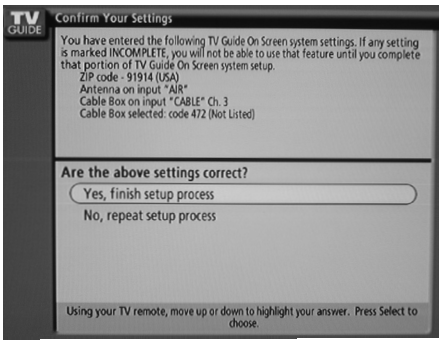
Do you have an antenna connected? Use the CURSOR PAD ▲ and ▼ to highlight your choice, then press the SELECT button to continue.

NOTE: In order to receive the program listings, you must select YES in this screen if you chose NO in Screen 3.


TV GUIDE
STEP 3: Configuring for Antenna
To supply your TV with correct program listings, the TV Guide On Screen system needs to know if you have attached an antenna to your TV to receive over-the-air stations.
Do you have an antenna connected to your TV?
Yes
No
Using your TV remote, move up or down to highlight your answer. Press Select to choose.

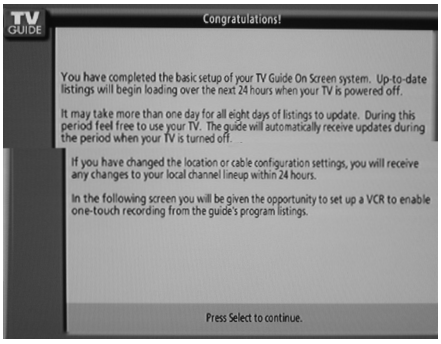
Screen 13:

Please confirm your initial settings. Use the CURSOR PAD ▲ and ▼ to highlight your choice, then press the SELECT button to continue.
If YES, FINISH SETUP PROCESS: Please see screen 14.
If NO, REPEAT SETUP PROCESS: Please see screen 1.


TV GUIDE
Confirm Your Settings
You have entered the following TV Guide On Screen system settings. If any setting is marked INCOMPLETE, you will not be able to use that feature until you complete that portion of TV Guide On Screen system setup.
ZIP code - 91914 (USA)
Antenna on input "AIR"
Cable Box on input "CABLE" Ch. 3
Cable Box selected: code 472 (Not Listed)
Are the above settings correct?
Yes, finish setup process
No, repeat setup process
Using your TV remote, move up or down to highlight your answer. Press Select to choose.

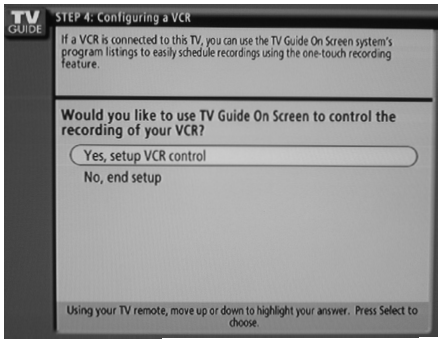
Screen 14:

The Basic TV Guide On Screen system setup has just been completed. Press the SELECT button to continue.


TV GUIDE
Congratulations!
You have completed the basic setup of your TV Guide On Screen system. Up-to-date listings will begin loading over the next 24 hours when your TV is powered off.
It may take more than one day for all eight days of listings to update. During this period feel free to use your TV. The guide will automatically receive updates during the period when your TV is turned off.
If you have changed the location or cable configuration settings, you will receive any changes to your local channel lineup within 24 hours.
In the following screen you will be given the opportunity to set up a VCR to enable one-touch recording from the guide's program listings.
Press Select to continue.

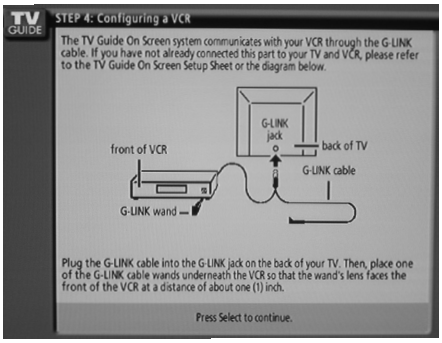
Screen 15:

Would like the TV Guide On-Screen system to control the recording of your VCR?
Use the CURSOR PAD ▲ and ▼ to highlight your choice, then press the SELECT button to continue.
If YES: Please see Screen 16.
If NO: Please see Screen 21.


TV GUIDE
STEP 4: Configuring a VCR
If a VCR is connected to this TV, you can use the TV Guide On Screen system's program listings to easily schedule recordings using the one-touch recording feature.
Would you like to use TV Guide On Screen to control the recording of your VCR?
Yes, setup VCR control
No, end setup
Using your TV remote, move up or down to highlight your answer. Press Select to choose.

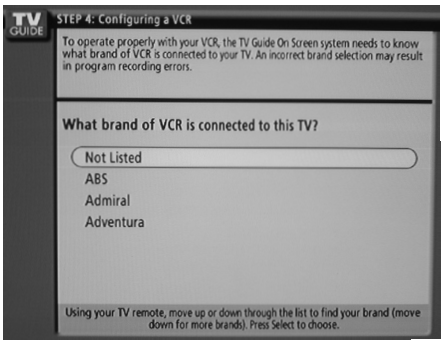
Screen 16:

This screen shows the correct way to setup the VCR with the G-LINK. Please confirm connection (see Page 20). Press the SELECT button to continue.


TV GUIDE
STEP 4: Configuring a VCR
The TV Guide On Screen system communicates with your VCR through the G-LINK cable. If you have not already connected this part to your TV and VCR, please refer to the TV Guide On Screen Setup Sheet or the diagram below.
G-LINK jack
front of VCR
back of TV
G-LINK cable
G-LINK wand
Plug the G-LINK cable into the G-LINK jack on the back of your TV. Then, place one of the G-LINK cable wands underneath the VCR so that the wand's lens faces the front of the VCR at a distance of about one (1) inch.
Press Select to continue.

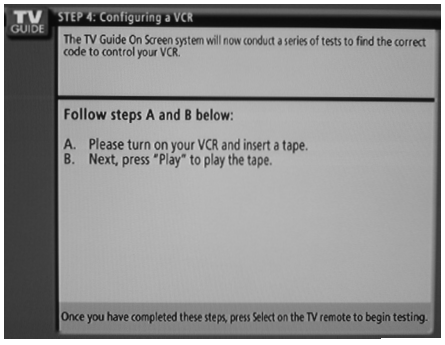
Screen 17:

Use the CURSOR PAD ▲ and ▼ to highlight your VCR brand or choose “Not Listed” if not listed, then press the SELECT button to continue.


TV GUIDE
STEP 4: Configuring a VCR
To operate properly with your VCR, the TV Guide On Screen system needs to know what brand of VCR is connected to your TV. An incorrect brand selection may result in program recording errors.
What brand of VCR is connected to this TV?
Not Listed
ABS
Admiral
Adventura
Using your TV remote, move up or down through the list to find your brand (move down for more brands). Press Select to choose.

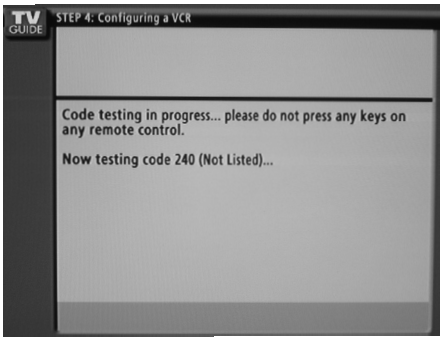
Screen 18:

Please turn on your VCR and insert a tape for recording purposes. Press PLAY from the VCR, then press the SELECT button to continue.


TV GUIDE
STEP 4: Configuring a VCR
The TV Guide On Screen system will now conduct a series of tests to find the correct code to control your VCR.
Follow steps A and B below:
A. Please turn on your VCR and insert a tape.
B. Next, press “Play” to play the tape.
Once you have completed these steps, press Select on the TV remote to begin testing.

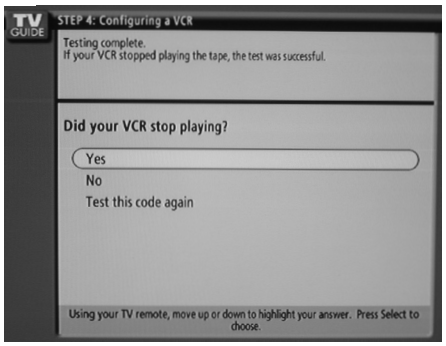
Screen 19:

The TV Guide On Screen system will test the code of your VCR. No TV, VCR or remote buttons should be pressed while performing the automatic test. After the testing process is complete, the setup procedure will continue, see Screen 20.


TV GUIDE
STEP 4: Configuring a VCR
Code testing in progress... please do not press any keys on any remote control.
Now testing code 240 (Not Listed)...

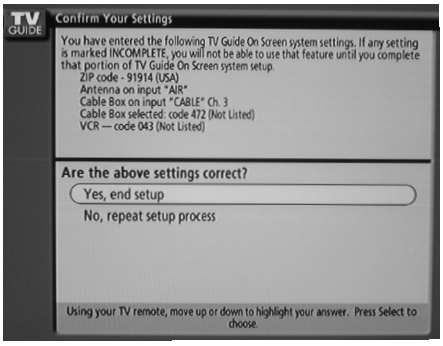
Screen 20:

Did your VCR stop playing?
Use the CURSOR PAD ▲ and ▼ to highlight your choice, then press the SELECT button to continue.
If YES: Please see screen 21.
If NO: Select NO to test a different code or select TEST THIS CODE AGAIN to test the same code.


TV GUIDE
STEP 4: Configuring a VCR
Testing complete.
If your VCR stopped playing the tape, the test was successful.
Did your VCR stop playing?
Yes
No
Test this code again
Using your TV remote, move up or down to highlight your answer. Press Select to choose.

Screen 21:

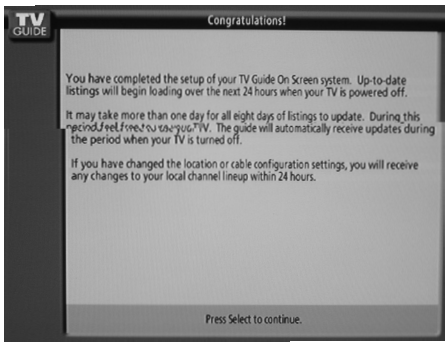
Please confirm your initial settings. Use the CURSOR PAD ▲ and ▼ to highlight your choice, then press the SELECT button to continue.
If YES, FINISH SETUP PROCESS: Please see screen 22.
If NO, REPEAT SETUP PROCESS: Please see screen 1.


TV GUIDE
Confirm Your Settings
You have entered the following TV Guide On Screen system settings. If any setting is marked INCOMPLETE, you will not be able to use that feature until you complete that portion of TV Guide On Screen system setup.
ZIP code - 91914 (USA)
Antenna on input "AIR"
Cable Box on input "CABLE" Ch. 3
Cable Box selected: code 472 (Not Listed)
VCR — code 043 (Not Listed)
Are the above settings correct?
Yes, end setup
No, repeat setup process
Using your TV remote, move up or down to highlight your answer. Press Select to choose.

TV Guide On Screen

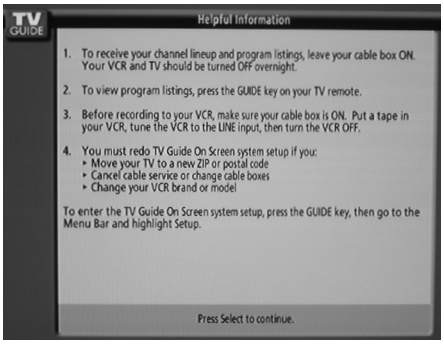
Screen 22:

Congratulations! The TV Guide On Screen system setup is complete. Press the SELECT button to finalize.


TV GUIDE
Congratulations!
You have completed the setup of your TV Guide On Screen system. Up-to-date listings will begin loading over the next 24 hours when your TV is powered off.
It may take more than one day for all eight days of listings to update. During this period, feel free to use your TV. The guide will automatically receive updates during the period when your TV is turned off.
If you have changed the location or cable configuration settings, you will receive any changes to your local channel lineup within 24 hours.
Press Select to continue.

Screen 23:

The last screen gives tips on using the TV Guide On Screen system. Press the SELECT button to exit the Setup.


TV GUIDE
Helpful Information
1. To receive your channel lineup and program listings, leave your cable box ON. Your VCR and TV should be turned OFF overnight.
2. To view program listings, press the GUIDE key on your TV remote.
3. Before recording to your VCR, make sure your cable box is ON. Put a tape in your VCR, tune the VCR to the LINE input, then turn the VCR OFF.
4. You must redo TV Guide On Screen system setup if you:
▸ Move your TV to a new ZIP or postal code
▸ Cancel cable service or change cable boxes
▸ Change your VCR brand or model
To enter the TV Guide On Screen system setup, press the GUIDE key, then go to the Menu Bar and highlight Setup.
Press Select to continue.

NOTE: 1. The LCD Rear PTV should be in standby mode in order to continually receive updated program listings from your cable company.

2. If using a Cable box, please leave it ON to continually receive updated program listings from your cable company.

TV Guide On Screen

Using the TV Guide On Screen System

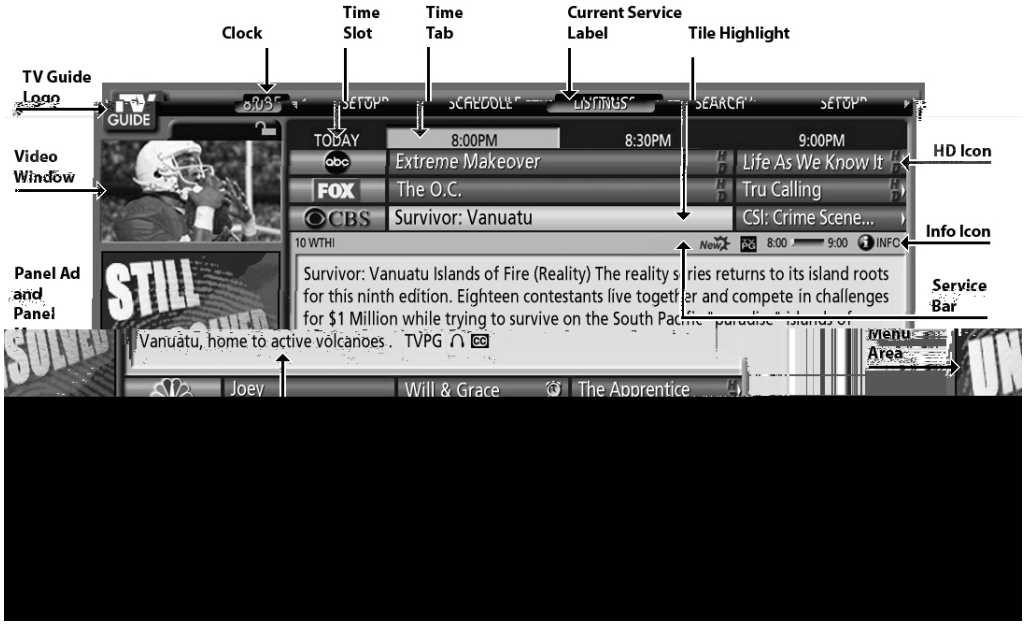
This free interactive program guide provides up to 8 days of TV programming. The advanced program listings make watching and recording TV shows and programs much easier.

The TV Guide On Screen system consists of 4 main services:

- **Listings:** Displays the available program listings and descriptions.
- **Search**: Allows you to find shows by keyword, alphabetically, or by program category.
- **Schedule**: Allows you to review, edit or delete "Record/Remind" events that were previously set.
- **Setup**: Allows you to make changes to System Settings, Channel Display and Default Options.

NOTE:

1. *After initial setup it may take up to 24 hours to receive initial program listings. It may take up to one week to receive a full 8 days of program listings.*
2. *The Program Guide provides listings for cable-ready, cable box, and digital cable services as well as over-the-air programs. It does not support satellite services.*
3. *The Program Guide lets you directly schedule and control VCR recordings.*
4. *The TV Guide On Screen representations shown in this Operating Guide are for illustration purposes only. Channels and program availability will depend on your location.*
5. *If Cable and Air are both connected, channels from both antennas will be downloaded and shown grouped together in the listings.*



- **Video Window**- Displays the current TV program while the Guide is enabled.
- **Clock Window**- Displays the current time.
- **Tile Highlight**- Indicates the current active tile.
- **Current Services Label**- Indicates currently viewed Service Label.
- **Service Bar**- Provides access to the 4 main Guide services.
- **Time Slot**- Provides the program broadcast time frame.
- **Info Icon**- Indicates additional information is available, or the Info Box has additional sizes.
- **Info Box**- Provides information on the highlighted program.
- **Tile**- Displays the program's title.
- **Remind Icon**- Indicates the program is set to remind and the remind frequency (Once, Daily, Weekly, or Regularly).
- **Record Icon**- Indicates the program is set to record and the record frequency (Once, Daily, Weekly, or Regularly).
- **Channel Logo**- Indicates the channel logo for easy identification.
- **Panel Menu/Panel Ad**- Displays Menu options and program advertising.

TV Guide On Screen

TV Guide On Screen Icons

	Icon	NAME	DESCRIPTION
1.		Progress Bar	- Elapsed time in current program
2.		Info Icon	- Indicates Info Box has additional sizes and information.
3.		HDTV	- Program is presented in High Definition.
4.		New	- Program is new (not a repeat).
5.		CC	- Closed Captioning is available.
6.		TV Rating	- TV rating for the program.
7.		Record Once	- Program is set to record one time.
8.		Record Daily	- Program is set to record every weekday that it airs on the same channel and starts at the same time. (Only available in manual recording).
9.		Record Regularly	- Program is set to record every time it airs on the same channel and starts at the same time.
10.		Record Weekly	- Program is set to record every time it airs on the same day of the week and on the same channel, and starts at the same time.
11.		Record Off	- Program is set to record but is currently Off (Still in Schedule) until the frequency is changed.
12.		Record Suspended	- Program recording is suspended due to a schedule conflict (Still in Schedule). - The Recording will resume when the conflict no longer exists.
13.		Remind Once	- Program is set to remind one time.
14.		Remind Daily	- Program is set to remind every weekday that it airs on the channel and starts at the same time (Only available when setting a manual reminder).
15.		Remind Regularly	- Program is set to remind every time it airs on the same channel and starts at the same time.
16.		Remind Weekly	- Program is set to remind every time it airs on the same day of the week and on the same channel, and starts at the same time.
17.		Remind Off	- Program is set to remind but is currently Off (Still in Schedule) until the frequency is changed.
18.		Remind Suspended	– Program reminder is suspended due to a schedule conflict (Still in Schedule). - The Reminder will resume when the conflict no longer exists.
19.		Stereo	- Program is available in stereo.
20.		AC3 Dolby Digital	- Program is presented in High-Definition, if available.
21.		Keep Recording	- Indicates recording will not be deleted until done so by user.

TV Guide On Screen

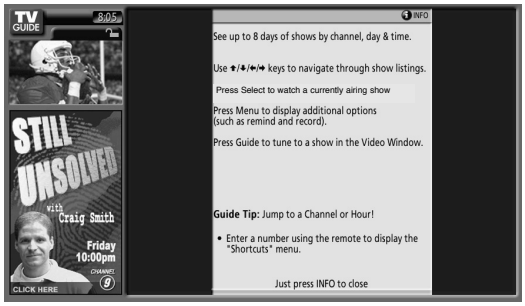
Four (4) Services:
- LISTINGS
- SEARCH
- SCHEDULE
- SETUP

NOTE: Recording to a VCR is available in the LISTINGS, SEARCH and SCHEDULE services.

LISTINGS:
The LISTINGS service screen is always the first service displayed when accessing the TV Guide On Screen system.
Use the CURSOR PAD and SELECT buttons to navigate the LISTINGS screen.

- View current day and up to 7 days of future programs.
- Read program information.
- Press the SELECT button to tune directly to a current program.
- Lock and Unlock the Video Window.
- Set a program to remind.
- Set a program to Record.
- Access the panel ads and channel ads when available.
- Use the CHANNEL SELECTOR (Number) buttons to jump to a specific channel.

Press the INFO button while the LISTINGS service is highlighted on the Service Bar to display a Help screen.


TV GUIDE
8:05
INFO
See up to 8 days of shows by channel, day & time.
Use ↑/↓/←/→ keys to navigate through show listings.
Press Select to watch a currently airing show
Press Menu to display additional options (such as remind and record).
Press Guide to tune to a show in the Video Window.
Guide Tip: Jump to a Channel or Hour!
• Enter a number using the remote to display the "Shortcuts" menu.
Just press INFO to close
STILL UNSOLVED
with Craig Smith
Friday 10:00pm
CLICK HERE

Press the MENU button while a program is highlighted to access the Episode Options Panel Menu.

EPISODE OPTIONS Panel Menu:
- Go to Service Bar
- Watch Now
- Set a recording
- Set a reminder
- Tune to the channel

GO TO SERVICE BAR:
Select to highlight the Service Bar.

TUNE TO CHANNEL / WATCH NOW:
Select to exit the TV Guide On Screen system and tune to the program or channel of the highlighted current and future program tile respectively.

SET RECORDING:
Select to display the Record Options Panel Menu from which you can set a program to record (see page 58).

SET REMINDER:
Select to display the Remind Options Panel Menu from which you can set a reminder for a program (see page 60).

CANCEL:
Select to close the menu and return to the highlighted program.

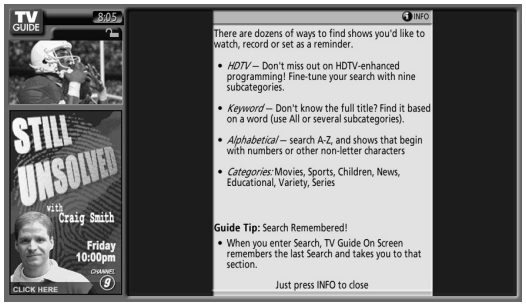
TV Guide On Screen

SEARCH:

The SEARCH service screen allows you to find programs by the following:

- Keyword
- Alphabetical
- Category
  - HDTV
  - Movies
  - Sports
  - Children
  - Educational
  - News
  - Variety
  - Series

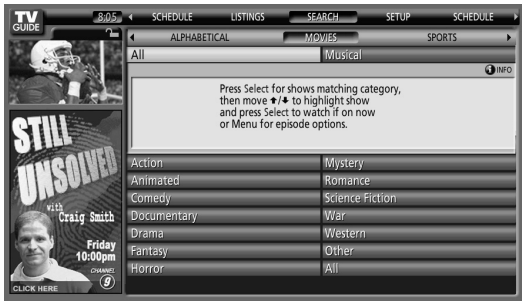
Press the INFO button while the SEARCH service is highlighted on the Service Bar to display a Help screen.


TV GUIDE
8:05
INFO
There are dozens of ways to find shows you'd like to watch, record or set as a reminder.
• HDTV – Don't miss out on HDTV-enhanced programming! Fine-tune your search with nine subcategories.
• Keyword – Don't know the full title? Find it based on a word (use All or several subcategories).
• Alphabetical – search A-Z, and shows that begin with numbers or other non-letter characters
• Categories: Movies, Sports, Children, News, Educational, Variety, Series
Guide Tip: Search Remembered!
• When you enter Search, TV Guide On Screen remembers the last Search and takes you to that section.
Just press INFO to close
STILL UNSOLVED
with Craig Smith
Friday 10:00pm
CLICK HERE

Example Category Search (Movies)

1. From the Search Screen, press the CURSOR PAD ▼ to highlight a category (Example: Movies).

2. Press the CURSOR PAD ▼ to highlight a subcategory (Example: ALL).



3. Press the SELECT button to display a list of all movies organized by date and time.

4. Use the CURSOR PAD ▲ and ▼ to highlight a current program, and then press the SELECT button to watch now. You can also press the MENU button to access the Episode Options Panel Menu (see page 55).

TV Guide On Screen

Example: Keyword Search

The Keyword search allows you to enter a word or words to find a program title that matches.

1. From the Search Screen, use the CURSOR PAD ◄ or ► to highlight KEYWORD, and then press the SELECT button.

2. Use the CURSOR PAD ▲ or ▼ to highlight NEW SEARCH in the Panel Menu, and then press the SELECT button.

3. After the Search Options Panel Menu is accessed, use the CURSOR PAD ▲ or ▼ to highlight CATEGORY. Then, use the CURSOR PAD ◄ or ► to highlight a category to search (ALL, HDTV, Children, Sports, etc.).

4. Press the CURSOR PAD ▼ to highlight ENTER KEYWORD, and then press the SELECT button.

5. A keyboard is displayed. Use the CURSOR PAD ▲, ▼, ◄ and ► to highlight a letter, and then press the SELECT button to enter it. After entering all necessary letters, highlight DONE and press the SELECT button.

6. A list of all the shows that matched the keyword is displayed.

7. Use the CURSOR PAD ▲ and ▼ to highlight a program, and then press the SELECT button to display all play times. Use the CURSOR PAD ▲ and ▼ to highlight a chosen listing, then press the SELECT button to watch a current program or press the MENU button to display the Episode Options menu (see page 55).

***NOTE:** The TV Guide On Screen system stores up to 250 keywords.*

To Edit or Delete a keyword:
From the SEARCH/KEYWORD screen, use the CURSOR PAD ▲ and ▼ to highlight the keyword you want to edit or delete. Press the MENU button to access the Search Options Panel Menu.

GO TO SERVICE BAR:
Select to highlight the Service Bar.

EDIT SEARCH:
Select to display the keyboard for editing the keyword.

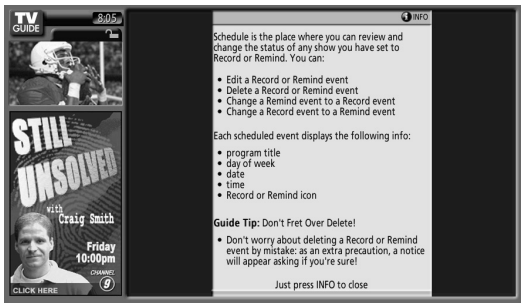
DELETE SEARCH:
Select to display the Search Options Menu. Select “edit search” or “delete search” to exit the Panel Menu.

CANCEL:
Select to close the Panel Menu and return to the highlighted program.

TV Guide On Screen

SCHEDULE:
The SCHEDULE Service screen allows you to review, edit and delete Record and Remind events.

Press the INFO button while the SCHEDULE Service is highlighted on the Service Bar to display a Help screen.


TV GUIDE
8:05
INFO
Schedule is the place where you can review and change the status of any show you have set to Record or Remind. You can:
• Edit a Record or Remind event
• Delete a Record or Remind event
• Change a Remind event to a Record event
• Change a Record event to a Remind event
Each scheduled event displays the following info:
• program title
• day of week
• date
• time
• Record or Remind icon
Guide Tip: Don't Fret Over Delete!
• Don't worry about deleting a Record or Remind event by mistake: as an extra precaution, a notice will appear asking if you're sure!
Just press INFO to close
STILL UNSOLVED
with Craig Smith
Friday 10:00pm
CLICK HERE

Use the CURSOR PAD ▲ or ▼ to highlight an event, and then press the MENU button to display the applicable Schedule Options Panel Menu options.

GO TO SERVICE BAR:
Select to highlight the Service Bar.

WATCH NOW/TUNE TO CHANNEL:
Select to exit the TV Guide On Screen system and tune to the highlighted program.

SET RECORDING:
Select to open a menu in which you can set a recording for the program (see page 58).

DELETE RECORDING:
Select to remove the recording from the schedule. A confirmation Panel Menu will display. Select YES to delete the recording or NO to exit the Panel Menu.

EDIT RECORDING:
Select to open a menu in which you can edit existing information (see page 58).

SET REMINDER:
Select to open a menu in which you can set a reminder for the program (see page 60).

DELETE REMINDER:
Select to remove the reminder from the schedule. A confirmation panel menu will display. Select YES to delete the reminder or NO to exit the panel menu.

EDIT REMINDER:
Select to open a menu in which you can edit existing reminder information (see page 60).

CANCEL:
Select to exit the Panel Menu.

How to Record:
The Record options can be set in the LISTINGS, SEARCH, and SCHEDULE Services. You can also edit record settings for a program in the SCHEDULE Services. There are 3 ways to set a program to record.

- Use the RECORD button on the Remote Control. Press the RECORD button to record the program Once with the current default setting. Each press of the RECORD button cycles through the RECORD frequency of Once (default), Regularly, Weekly and Cancel.

***NOTE:** The specific Record Icon appears on the tile each time the RECORD button is pressed.*

- Use the Panel Menu record features.

1. Use the CURSOR PAD ▲ or ▼ to highlight a program and press the MENU button to access the Panel Menu.

2. Use the CURSOR PAD ▼ to highlight Set Recording and press the SELECT button to display the Record Options Panel Menu.

3. Use the CURSOR PAD ▲ or ▼ to highlight the Frequency field and press the CURSOR PAD ◄ or ► to select among Once, Regularly, Weekly or Off.

4. Press the CURSOR PAD ▼ to highlight the Start field, and then press the CURSOR PAD ◄ or ► to select in the range from 120 minutes early to 120 minutes late. The default time is ON Time.

5. Repeat step 4 for the End Field.

***NOTE:** Default options can be set for the values in the Record Options Panel menu fields (see page 63).*

- Use Manual Recording:

1. From the SERVICE bar, use the CURSOR PAD ◄ or ► to highlight the SCHEDULE. Press the MENU button to display the Schedule Options Panel Menu.

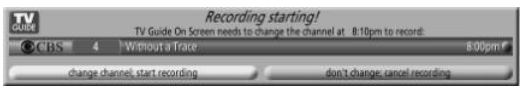
2. Use the CURSOR PAD ▲ or ▼ to highlight New Manual Recording, and then press the SELECT button to access the Record Options Panel Menu.

3. Set the information in the Panel Menu fields.

4. After completing the information in the fields, press the SELECT button to highlight SCHEDULE RECORDING, and then press the SELECT button again to exit the menu or use the CURSOR PAD ▲ or ▼ to highlight CANCEL then press the SELECT button to exit the menu.

NOTE: *1. When setting Manual recording, the option DAILY is available instead of Regularly.*
2. A specific Record icon appears on the tile.

Recording Notification Banner:
If the channel you are watching is different from the one that is set to record, a notification banner appears and will prompt you before recording starts. The banner will ask you to choose to start or cancel recording. If no choice is made within 3 minutes, the banner will close automatically and the channel will tune to the one set to record. If you want the recording cancelled, select "Don't change; cancel recording" in the banner and press the SELECT button.

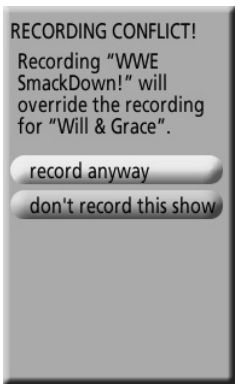

TV GUIDE
Recording starting!
TV Guide On Screen needs to change the channel at 8:10pm to record:
CBS 4 Without a Trace 8:00pm
change channel; start recording
don't change; cancel recording

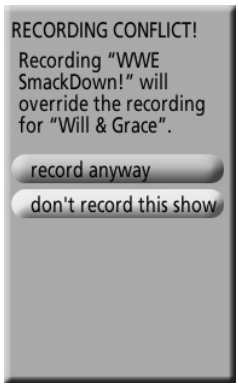
Recording Conflict:
A recording conflict message will appear if:

- A program set to record overlaps with part of another program previously set to record.
- A program set to record overlaps with the program previously set to auto-tune (see page 60).

Select these options:

- Record Anyway – The selected program will override an existing program set to record or auto-tune.
- Don't record this show – Cancels the recording.


RECORDING CONFLICT!
Recording "WWE SmackDown!" will override the recording for "Will & Grace".
record anyway
don't record this show


RECORDING CONFLICT!
Recording "WWE SmackDown!" will override the recording for "Will & Grace".
record anyway
don't record this show

How to Remind:
The Remind options can be set in the LISTINGS, SEARCH, and SCHEDULE Services. You can also edit remind settings for a program in the SCHEDULE Services. Set the Reminder to perform the following functions.

- Set to automatically turn ON the TV and tune to the channel at the scheduled reminder time.
- Set to automatically tune the TV, at the scheduled reminder time, to the channel specified by the reminder.
- Set to display an on-screen notification banner that reminds you that the program is about to start. You will be given the choices to tune to the program channel or cancel the reminder.

TV Guide On Screen

How to set a reminder:

- Set from the Panel Menu

1. Use the CURSOR PAD ▲ or ▼ to highlight a program and press the MENU button to access the Episode Options Panel Menu.
2. Use the CURSOR PAD ▼ to highlight SET REMINDER and press the SELECT button to access the Remind Options Panel Menu.

3. Use the CURSOR PAD ▲ or ▼ to highlight the frequency field, and then use the CURSOR PAD ◄ or ► to select from Once, Regularly, Weekly or Off.

4. Use the CURSOR PAD ▼ to highlight the Power on TV field, and then use the CURSOR PAD ◄ or ► to select YES (Turns the TV On automatically at the specified reminder time) or NO (Default setting).

5. Use the CURSOR PAD ▼ to highlight the Auto Tune TV field, and then use the CURSOR PAD ◄ or ► to select YES (Tunes the TV which is currently ON automatically to the channel specified at specified reminder time).

6. Use the CURSOR PAD ▼ to highlight the When field (set the time for displaying the reminder screen), and then use the CURSOR PAD ◄ or ► to select from 15 minutes early to 15 minutes late or On time (Default is 1 minute early).

7. Press the SELECT button to highlight Schedule reminder, and then press the SELECT button again to exit the menu or you can highlight Cancel and press the SELECT button to exit the menu.

NOTE: *Default options can be set for the values of the Remind Options Panel Menu fields (see page 63).*

- Set Manual reminder

1. From the Service bar, use the CURSOR PAD ◄ or ► to highlight SCHEDULE, and then press the MENU button to access the Schedule Options Panel Menu.
2. Use the CURSOR PAD ▲ or ▼ to highlight New Manual Reminder and then press the SELECT button to access the Remind Options Panel Menu.

3. Use the CURSOR PAD ▲, ▼, ◄, ► to highlight and enter information in the panel menu fields (Date, start/end time, channel, input, power on TV, auto tune TV and frequency).

4. Press the SELECT button to highlight SCHEDULE REMINDER, and then press the SELECT button again to exit the menu or you can highlight Cancel and press the SELECT button to exit the menu.

NOTE: *1. When setting Manual Reminders, the option Daily is available instead of Regularly.*
2. A specific Reminder icon appears on the tile.

TV Guide On Screen

Reminder Notification Banner

Depending on your option settings, a notification banner will appear at the scheduled reminder time.

Press the SELECT button to hide the Reminder banner, or, if more than one reminder appears, use the CURSOR PAD ▲ or ▼ to highlight a program. Press the SELECT button to tune to the program.

If no choice is made within 3 minutes, the banner closes automatically.

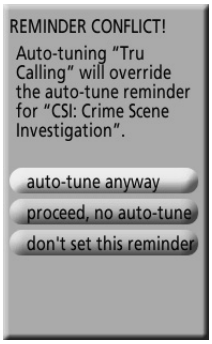
Remind Conflict

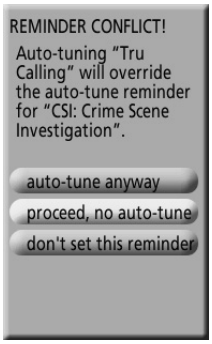
A remind conflict message will appear if:

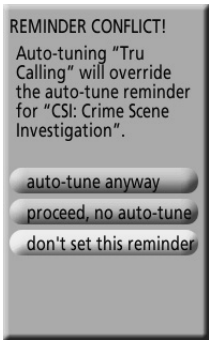
- A program set with an auto-tune reminder has the same start time as an existing auto-tune reminder.
- A program set with an auto-tune reminder overlaps with a scheduled recording.

Select these options:

- Auto-Tune anyway – The selected program will override an existing program set to auto-tune.
- Proceed, No Auto-Tune – Set the program as a reminder but do not auto-tune.
- Don't set this reminder – Cancels the reminder.





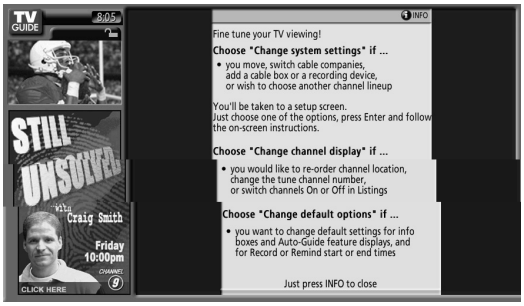


SETUP:

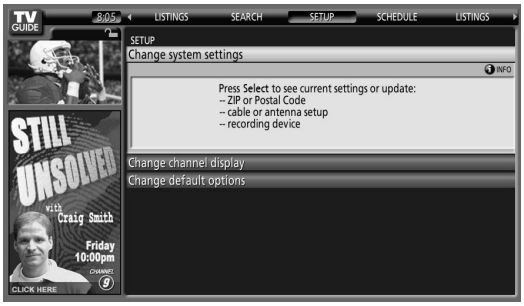
The SETUP Service screen allows you to modify settings that were entered at initial TV Guide On Screen system setup (see page 47). The 3 settings will be the following:

- Change System settings
- Change channel display
- Change default options

Press the INFO button while the SETUP Service is highlighted on the Service Bar to display a Help screen.



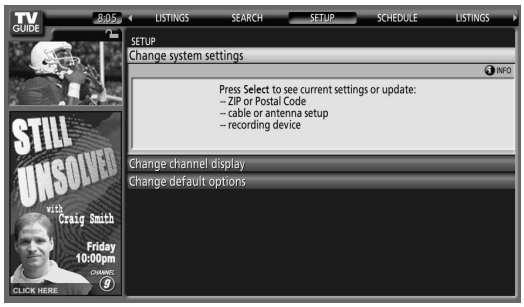
Use the CURSOR PAD ▼ to highlight a setting option, and then press the SELECT button to access each setting.

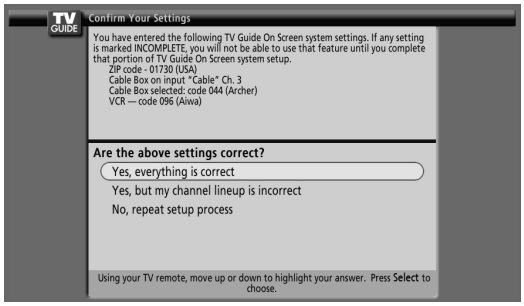


TV Guide On Screen

CHANGE SYSTEM SETTINGS:
Use this option if you want to change something after completing initial TV Guide On Screen system setup.

1. From the SETUP screen, use the CURSOR PAD ▼ to highlight Change system settings, and then press the SELECT button to reconfirm your settings.




TV GUIDE
Confirm Your Settings
You have entered the following TV Guide On Screen system settings. If any setting is marked INCOMPLETE, you will not be able to use that feature until you complete that portion of TV Guide On Screen system setup.
ZIP code - 01730 (USA)
Cable Box on input "Cable" Ch. 3
Cable Box selected: code 044 (Archer)
VCR — code 096 (Aiwa)
Are the above settings correct?
Yes, everything is correct
Yes, but my channel lineup is incorrect
No, repeat setup process
Using your TV remote, move up or down to highlight your answer. Press Select to choose.

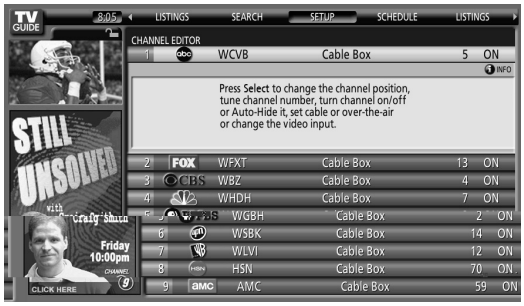
2. Use the CURSOR PAD ▲ or ▼ to highlight your selected options, and then press the SELECT button. Follow the On Screen instructions.

CHANGE CHANNEL DISPLAY:
Use this option to edit channel information that appears in the LISTINGS Service screen. The channel information that can be edited includes:

- Change the position order channels appear in the LISTINGS Service screen.
- Change the tune channel number.
- Change a channel to one of the following settings:
  - ON (Channel is displayed in LISTINGS)
  - OFF (Channel is not displayed in LISTINGS)
  - AUTO-HIDE (Channel is displayed in LISTINGS only when program information is available
- Change the service type for the source:
  - Cable
  - Cable Box
  - Over-the-Air
  - Antenna
  - Etc.

1. From the SETUP Screen, use the CURSOR PAD ▼ to highlight Change Channel Display, and then press the SELECT button.

2. Highlight a channel row and press the SELECT button.



3. Press the INFO button to view the On-Screen instructions.
4. Use the CURSOR PAD ▲ or ▼ to highlight one of the options, and make any necessary changes, and then press the SELECT button.

NOTE: *The Tune channel is the channel on which the TV receives a station depending on its type of cable, cable box, or antenna services.*

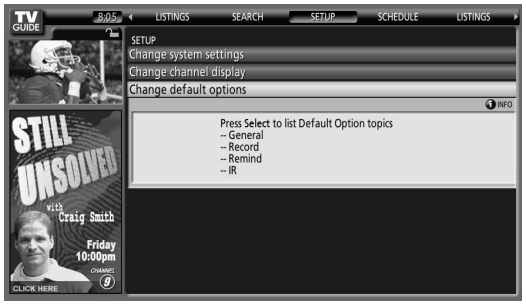
TV Guide On Screen

CHANGE DEFAULT OPTIONS:
Use this option to change default settings:

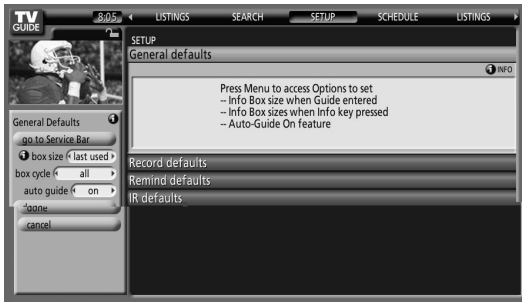
- General Defaults
- Record Defaults
- Remind Defaults
- IR Defaults

GENERAL DEFAULT OPTIONS

1. From the SETUP screen, use the CURSOR PAD ▲ or ▼ to highlight Change Default Options and then press the SELECT button



2. Use the CURSOR PAD ▲ or ▼ to highlight General Default Options, and then press the MENU button to access the General Default Options Panel Menu.



3. Enter your choices in the Panel Menu fields:

- BOX SIZE: The initial Info box size (No, Small, Large, and Last Used -default)
- BOX CYCLE: The Info Box size rotation when the INFO button is pressed. (No Only, Small Only, Large Only, No and Small, No and Large, Small and Large, and All –default).
- AUTO GUIDE: Automatic access into the TV Guide On Screen system when the TV is turned ON (On-default and Off).

4. Press the SELECT button to highlight Done, and then press the SELECT button again to exit the menu or use the CURSOR PAD ▲ or ▼ to highlight Cancel. Then press the SELECT button to exit the menu.

RECORD DEFAULTS

1. From the SETUP screen, use the CURSOR PAD ▲ or ▼ to highlight Change Default Options and then press the SELECT button.

2. Use the CURSOR PAD ▲ or ▼ to highlight Record defaults and then press the MENU button to access the Record Defaults Panel Menu.

3. The following options woud not appear in the panel menu and should be deleted from the list and the screen “recorder choice, how long to keep a Record event, the quality of the recording.”

4. Press the SELECT button to highlight Done, and then press the SELECT button to exit the menu or use the CURSOR PAD ▼ to highlight Cancel. Then press the SELECT button to exit the menu.

REMIND DEFAULTS

1. From the SETUP screen, use the CURSOR PAD ▲ or ▼ to highlight Change Default Options and then press the SELECT button.

2. Use the CURSOR PAD ▲ or ▼ to highlight Remind defaults and then press the MENU button to access the Remind Defaults Panel Menu.

3. Enter the chosen information in the Panel Menu fields (Power On TV, auto-tune, when to display the Remind screen).

4. Press the SELECT button to highlight Done, and then press the SELECT button to exit the menu or use the CURSOR PAD ▼ to highlight Cancel. Then press the SELECT button to exit the menu.

IR DEFAULTS

IR Defaults lets you modify the channel dialing defaults if your cable box and/or VCR is not changing channels properly.

1. From the SETUP screen, use the CURSOR PAD ▼ to highlight Change Default Options and then press the SELECT button.

2. Use the CURSOR PAD ▲ or ▼ to highlight IR defaults and then press the MENU button to access the IR Defaults Panel Menu.

3. Enter the chosen information in the Panel Menu fields.

   - Cable box – if you have a cable box, indicates whether or not you want to modify the default channel dialing options.
     Choices are Yes and No (default).
   - Dial mode – select whether you must enter 2-digit or 3-digit (default) channel numbers to change channels on your cable box.
   - Enter key – indicate if you currently press the Enter key after you enter a channel number with your cable box remote.
     Choices are Yes and No (default).
   - VCR – if you have a VCR, indicates whether or not you want to modify the default channel dialing options.
     Choices are Yes and No (default).
   - Dial mode – select whether you must enter 2-digit (default) or 3-digit channel numbers to change channels on your VCR.
   - Enter key – indicate if you currently press the Enter key after you enter a channel number with your VCR remote.
     Choices are Yes and No (default).

4. Press the SELECT button to highlight Done, and then press the SELECT button to exit the menu or use the CURSOR PAD ▼ to highlight Cancel. Then press the SELECT button to exit the menu.